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Inventors:

Huw M. Nash, Seth Birnbaum, Edward A.

Wintner, Krishna Kalghatgi and Satish Jindal

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METHOD FOR PRODUCING AND SCREENING MASS-CODED COMBINATORIAL LIBRARIES FOR DRUG DISCOVERY AND TARGET VALIDATION

RELATED APPLICATIONS

This application claims the benefit of U.S.

Provisional Application No. 60/070,456, filed January 5,

1998, the contents of which are incorporated herein by
reference in their entirety.

BACKGROUND OF THE INVENTION

Genomics is identifying the genes responsible for all
human functions and diseases. With 80,000 genes in the
human genome, the thousands of genes involved in
development, stature, intelligence, and other features of a
human being are being defined. Humans suffer from hundreds
of inherited and infectious diseases, and the genes
involved in such are also being identified. Proteins

encoded by all these genes are targets for therapeutic drugs. However, drugs that can be applied to human function and disease will not simply emerge from genomic information. Conventional drug development for a single 5 disease is a lengthy, tedious and extremely expensive process. Technologies that eliminate the major hurdles facing drug development in the post-genomic era would be of substantial value.

SUMMARY OF THE INVENTION

The present invention provides a method for producing a mass-coded set of chemical compounds having the general formula $X(Y)_n$, where X is a scaffold, each Y is, independently, a peripheral moiety, and n is an integer greater than 1, typically from 2 to about 6. The method 15 comprises selecting a peripheral moiety precursor subset from a peripheral moiety precursor set. The subset includes a sufficient number of peripheral moiety precursors that at least about 50, 100, 250 or 500 distinct combinations of n peripheral moieties derived from the 20 peripheral moiety precursors in the subset exist. The subset of peripheral moiety precursors is selected so that at least about 90% of all possible combinations of n peripheral moieties derived from the subset of peripheral moiety precursors have a molecular mass sum which is 25 distinct from the molecular mass sums of all of the other combinations of n peripheral moieties. The method further comprises contacting the peripheral moiety precursor subset with a scaffold precursor which has n reactive groups, each of which is capable of reacting with at least one peripheral moiety precursor to form a covalent bond. The peripheral moiety precursor subset is contacted with the scaffold precursor under conditions sufficient for the reaction of each reactive group with a peripheral moiety precursor, resulting in a mass-coded set of compounds of the general formula $X(Y)_n$.

In another embodiment, the invention provides a method 10 of identifying a member or members of a mass-coded combinatorial library which are ligands for a biomolecule, for example, a protein or a nucleic acid molecule, such as DNA or RNA. The method comprises the steps of (1) contacting the biomolecule with the mass-coded molecular 15 library, whereby members of the mass-coded molecular library which are ligands for the biomolecule bind to the biomolecule to form biomolecule-ligand complexes and members of the mass-coded library which are not ligands for the biomolecule remain unbound; (2) separating the 20 biomolecule-ligand complexes from the unbound members of the mass-coded molecular library; (3) dissociating the biomolecule-ligand complexes; and (4) determining the molecular mass of each ligand to identify the set of n peripheral moieties present in each ligand.

In a further embodiment, the invention provides a method for identifying a member or members of a mass-coded molecular library which are ligands for a biomolecule and bind to the biomolecule at the binding site of a ligand

known to bind the biomolecule (a known ligand). The method comprises the steps of: (1) contacting the biomolecule with the mass-coded molecular library, so that members of the mass-coded molecular library which are ligands for the 5 biomolecule bind to the biomolecule to form biomoleculeligand complexes and members of the mass-coded library which are not ligands for the biomolecule remain unbound; (2) separating the biomolecule-ligand complexes from the unbound members of the mass-coded molecular library; (3) 10 contacting the biomolecule-ligand complexes with a ligand known to bind the biomolecule, to dissociate biomoleculeligand complexes in which the ligand binds to the biomolecule at the binding site of the known ligand, thereby forming biomolecule-known ligand complexes and 15 dissociated ligands; (4) separating the dissociated ligands and biomolecule-ligand complexes; and (5) determining the molecular mass of each dissociated ligand to identify the set of n peripheral moieties present in each dissociated ligand.

In a yet further embodiment, the invention provides a method for identifying a member or members of a mass-coded combinatorial library which are ligands for a first biomolecule but are not ligands for a second biomolecule. The method comprises the steps of: (1) contacting the first biomolecule with the mass-coded molecular library, whereby members of the mass-coded molecular library which are ligands for the first biomolecule bind to the first biomolecule to form first biomolecule-ligand complexes and

members of the mass-coded library which are not ligands for the first biomolecule remain unbound; (2) separating the first biomolecule-ligand complexes from the unbound members of the mass-coded molecular library; (3) dissociating the 5 first biomolecule-ligand complexes; (4) determining the molecular mass of each ligand for the first biomolecule; (5) contacting the second biomolecule with the mass-coded molecular library, whereby members of the mass-coded molecular library which are ligands for the second 10 biomolecule bind to the second biomolecule to form second biomolecule-ligand complexes and members of the mass-coded library which are not ligands for the second biomolecule remain unbound; (6) separating the second biomoleculeligand complexes from the unbound members of the mass-coded 15 molecular library; (7) dissociating the second biomoleculeligand complexes; (8) determining the molecular mass of each ligand for the second biomolecule; and (9) determining which molecular masses determined in step (4) are not determined in step (8). This provides the molecular masses 20 of members of the mass-coded combinatorial library which are ligands for the first biomolecule, but are not ligands for the second biomolecule.

In another embodiment, the method for identifying a member or members of a mass-coded combinatorial library which are ligands for a first biomolecule but are not ligands for a second biomolecule comprises the steps of:

(1) contacting the second biomolecule with the mass-coded molecular library, so that members of the mass-coded

molecular library which are ligands for the second biomolecule bind to the second biomolecule to form second biomolecule-ligand complexes and members of the mass-coded library which are not ligands for the second biomolecule 5 remain unbound; (2) separating the second biomoleculeligand complexes from the unbound members of the mass-coded molecular library; (3) contacting the first biomolecule with the unbound members of the mass-coded molecular library of step (2), whereby members of the mass-coded 10 molecular library which are ligands for the first biomolecule bind to the first biomolecule to form first biomolecule-ligand complexes and members of the mass-coded library which are not ligands for the first biomolecule remain unbound; (4) dissociating the first biomolecule-15 ligand complexes; and (5) determining the molecular mass of each ligand for the first biomolecule. Each molecular mass determined corresponds to a set of n peripheral moieties present in a ligand for the first biomolecule which is not a ligand for the second biomolecule.

In yet another embodiment, the present invention relates to a method for identifying a member of a masscoded combinatorial library which is a ligand for a biomolecule and assessing the the effect of the binding of the ligand to the biomolecule. The method comprises the 25 steps of: contacting the biomolecule with the mass-coded molecular library, whereby members of the mass-coded molecular library which are ligands for the biomolecule bind to the biomolecule to form biomolecule-ligand

complexes and members of the mass-coded library which are not ligands for the biomolecule remain unbound; separating the biomolecule-ligand complexes from the unbound members of the mass-coded molecular library; dissociating the 5 biomolecule-ligand complexes; determining the molecular mass of each ligand to identify the set of n peripheral moieties present in each ligand. The molecular mass of each ligand corresponds to a set of n peripheral moieties present in that ligand, thereby identifying a member of the 10 mass-coded combinatorial library which is a ligand for the biomolecule. The method further comprisies assessing in an in vivo or in vitro assay the effect of the binding of the ligand to the biomolecule on the function of the biomolecule.

The method of the invention allows rapid production of mass-coded combinatorial libraries comprising large numbers of compounds. The mass-coding enables the identification of individual combinations of scaffold and peripheral moieties by molecular mass. The libraries prepared by the 20 method of the invention also allow the rapid identification of compounds which are ligands for a given biomolecule.

BRIEF DESCRIPTION OF THE DRAWINGS

Figures 1A and 1B are flow charts illustrating a procedure and alternative procedure, respectively, for 25 selecting a subset of peripheral moiety precursors from among a larger set of peripheral moiety precursors for the production of a mass-coded combinatorial library.

Figure 2A is a graph illustrating the mass redundancy of the combinatorial libraries resulting from a computer selected set of peripheral moiety precursors selected using a mass-coding algorithm.

Figure 2B is a graph illustrating the mass redundancy of the combinatorial libraries resulting from a set of peripheral moiety precursors selected randomly.

redundancy of the combinatorial libraries resulting from

(1) a computer optimized set of peripheral moiety
precursors selected using a mass-coding algorithm (...) and
(2) a set of peripheral moiety precursors selected randomly
(-).

Figure 2C presents graphs illustrating the mass

Figure 3 is a schematic diagram of a computer system

15 employing a digital processor assembly embodying the
invention method of selecting a subset of peripheral moiety
precursors which minimize or eliminate mass redundancy in a
library.

DETAILED DESCRIPTION OF THE INVENTION

The major hurdles in drug development include a need for: 1) combinatorial chemistry technology that enables rapid production of nearly unlimited numbers of compounds while incorporating the ability to identify efficiently single chemical compounds that bind tightly to a specific biomolecule target, such as a protein or nucleic acid molecule; 2) extremely efficient target-based screening technologies that permit rapid identification of chemical

compounds within a large library mixture that become tightly associated with a target biomolecule, even when the function of that biomolecule is not well understood and 3) an information data set that describes how chemical components interact with biomolecules of medical importance.

The present invention provides a method of producing a mass-coded set of compounds, such as a mass-coded combinatorial library. The compounds are of the general formula X(Y)_n, wherein X is a scaffold, each Y is a peripheral moiety and n is an integer greater than 1, typically from 2 to about 6. The term "scaffold", as used herein, refers to a molecular fragment to which two or more peripheral moieties are attached via a covalent bond. The scaffold is a molecular fragment which is common to each member of the mass-coded set of compounds. The term "peripheral moiety", as used herein, refers to a molecular fragment which is bonded to a scaffold. Each member of the set of mass-coded compounds will include a combination of n peripheral moieties bonded to the scaffold and this set of compounds forms a mass coded combinatorial library.

The term "combination", as used herein, refers to all permutations of m moieties having n members where m is an integer greater than 2, n is an integer greater than 1 and 25 m is greater than or equal to n, such that:

(1) Permutations having n members in which a given moiety is present from 0 to n times are included.

(2) Permutations having the same n moieties but ordered differently are included once and only once. The number of combinations of all permutations of m moieties having n members may be calculated from the 5 formula:

Combinations = k! / ((k-n)!*n!) where k = m + (n-1)

For example, the combinations of the four moieties labeled A, B, C, D which have 3 members are: A A A; A A B; A A C; A A D; A B B; A B C; A B D; A C C; A C D; A D D; B B B;

10 B B C; B B D; B C C; B C D; B D D; C C C; C C D; C D D and D D D. B A A and A B A, for example, are not counted as separate combinations; only A A B is counted. In this example, m = 4, n = 3 and the number of combinations is given by

6! / ((6-3)!*3!) = 20.

The terms "mass-coded set of compounds" and "mass-coded combinatorial library", as used herein, refer to a set of compounds of the formula XYn, where X is a scaffold, each Y is, independently, a peripheral moiety and n is an integer greater than 1, typically from 2 to about 6. Such a set of compounds is synthesized as a mixture by the combination of a set of peripheral moiety precursors with a scaffold precursor, and is designed to possess minimum mass redundancy, given the requirement that a fixed number

(subset) of peripheral moiety precursors must be chosen from a set of available peripheral moiety precursors.

The term "mass" or "molecular mass', as used herein, refers to the exact mass of a molecule or collection of chemical moieties in which each atom is the most abundant naturally occurring isotope for the particular element. Exact masses and their determination by mass spectrometry are discussed by Pretsch et al., Tables of Spectral Data for Structure Determination of Organic Compounds, second edition, Springer-Verlag (1989), and Holden et al., Pure Appl. Chem. 55: 1119-1136 (1983), the contents of each of which are incorporated herein by reference in their entirety.

"Minimum mass redundancy", as the term is used herein,
is exhibited by a set of compounds of the formula X(Y)_n
formed by reaction of a scaffold precursor having n
reactive groups, where n is an integer greater than 1,
typically from 2 to about 6, with a subset of peripheral
moiety precursors in which at least about 90% of the

20 possible combinations of n peripheral moieties derived from
the subset of peripheral moiety precursors have a molecular
mass sum which is distinct from the molecular mass sum of
any other combination of n peripheral moieties derived from
the subset. The molecular mass sum of a combination of
peripheral moieties is the sum of the masses of each
peripheral moiety within the combination. For the present
purposes, two molecular masses are distinct if they can be
distinguished by mass spectrometry or high resolution mass

spectrometry. For example, molecular masses which differ by at least 0.001 atomic mass units can be distinguished by high resolution mass spectrometry.

It is to be understood that the molecular mass sum of the combination of the n peripheral moieties in a particular compound of the formula X(Y)_n is the collective contribution of the n peripheral moieties to the molecular mass of the compound. As each compound within the set includes a constant scaffold, the difference in the molecular masses of two compounds within the mass-coded set of compounds is the difference in the molecular mass sums of the set of peripheral moieties in each compound.

The method of the invention comprises selecting a peripheral moiety precursor subset from a larger peripheral moiety precursor set. Details of the preferred selection process are discussed later with reference to Figures 1A, 1B and 3. The subset includes a sufficient number of peripheral moiety precursors so that, in one embodiment, at least about 50 distinct combinations of n peripheral moieties derived from the peripheral moiety precursors in the subset can be formed. In another embodiment, at least about 100 distinct combinations of n peripheral moieties can be formed. In a further embodiment, at least about 250 distinct combinations of n peripheral moiety precursors can be formed, and, in yet another embodiment, at least about 500 distinct combinations of n peripheral moieties can be formed.



The subset of peripheral moiety precursors is selected so that at least about 90% of all possible combinations of n peripheral moieties derived from the subset have a molecular mass sum which is distinct from the molecular 5 mass sums of all of the other combinations of n peripheral The method further comprises contacting the peripheral moiety precursor subset with a scaffold precursor which has n reactive groups, each of which is capable of reacting with at least one peripheral moiety 10 precursor to form a covalent bond. The peripheral moiety precursor subset is contacted with the scaffold precursor under conditions sufficient for the reaction of each reactive group with a peripheral moiety precursor, resulting in a mass-coded set of compounds.

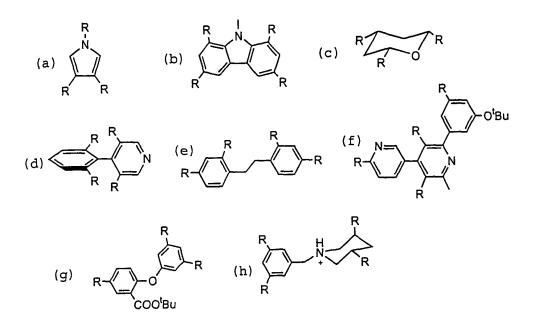
In one embodiment, at least about 95% of all possible combinations of n peripheral moieties derived from the peripheral moiety precursor subset have a molecular mass sum which is distinct from the molecular mass sums of all of the other combinations of n peripheral moieties. 20 another embodiment, each of the possible combinations of n peripheral moieties derived from the subset has a molecular mass sum which is distinct from the molecular mass sums of all of the other combinations of n peripheral moieties.

The scaffold precursor can be any molecule comprising 25 two or more reactive groups which are capable of reacting with a peripheral moiety precursor reactive group to form a covalent bond. For example, suitable scaffold precursors can have a wide range of sizes, shapes, degrees of

flexibility and charges. The reactive groups should be incapable of intramolecular reaction under the conditions employed. Further, a scaffold precursor molecule should not react with another scaffold precursor molecule under the conditions employed. The scaffold precursor can also include any additional functional groups which are masked or protected or which do not interfere with the reaction of the reactive groups with the peripheral moiety precursors.

Preferably, the scaffold precursor comprises one or more saturated, partially unsaturated or aromatic cyclic groups, such as a cyclic hydrocarbon or heterocyclic group. In scaffold precursors comprising two or more cyclic groups, the cyclic groups can be fused, connected via a direct bond or connected via an intervening group, such as an oxygen atom, an NH group or a C₁₋₆-alkylene group. At least one cyclic group is substituted by one or more reactive groups. The reactive groups can be attached to the cyclic group directly or via an intervening group, such as a C₁₋₆-alkylene group, preferably a methylene group.

20 Examples of suitable scaffold precursors include reactive group-substituted benzene, biphenyl, cyclohexane, bipyridyl, N-phenylpyrrole, diphenyl ether, naphthalene and benzophenone. Other suitable classes of scaffold precursors are shown below.



In these examples, each of the indicated substituents R is, independently, a reactive group, and the scaffold precursor can include one or more additional functional groups which are either (1) masked or protected to prevent their reaction with a peripheral moiety precursor (e.g., scaffold precursors f and g, above) or (2) do not react either with R or with a peripheral moiety precursor under the given reaction conditions (e.g., scaffold precursor h, above, in which $R = C(0)O(C_6F_5)$ and the peripheral moiety precursors include primary amino groups).

A peripheral moiety precursor is a compound which includes a reactive group which is complementary to one or

more of the reactive groups of the scaffold precursor. In addition to the reactive group, a peripheral moiety precursor can include a wide variety of structural For example, the peripheral moiety precursor can features. 5 include one or more functional groups in addition to the reactive group. Any additional functional group should be appropriately masked or not interfere with the reaction between the scaffold precursor and the peripheral moiety precursor. In addition, two peripheral moiety precursors should not react together under the conditions employed. For example, a subset of peripheral moiety precursors can include, in addition to the reactive groups, functionalities selected from groups spanning a range of charge, hydrophobicity/hydrophilicity, and sizes. example, the peripheral moiety precursor can include a negative charge, a positive charge, a hydrophilic group or a hydrophobic group.

In addition to the reactive groups, peripheral moiety precursors can include, for example, functionalities 20 selected from among amino acid side chains, a nucleotide base or nucleotide base analogue, sugar moieties, sulfonamides, peptidomimetic groups, charged or polar functional groups, alkyl groups and aryl groups.

For the present purposes, two reactive groups are complementary if they are capable of reacting together to 25 form a covalent bond. In a preferred embodiment, the bond forming reactions occur rapidly under ambient conditions without substantial formation of side products.

Preferably, a given reactive group will react with a given complementary reactive group exactly once.

In one embodiment, the reactive group of the scaffold precursor and the reactive group of the peripheral moiety

5 precursor react, for example, via nucleophilic substitution, to form a covalent bond. In one embodiment, the reactive group of the scaffold precursor is an electrophilic group and the reactive group of the peripheral moiety precursor is a nucleophilic group. In another embodiment, the reactive group of the scaffold precursor is a nucleophilic group, while the reactive group of the peripheral moiety precursor is an electrophilic group.

Complementary electrophilic and nucleophilic groups include any two groups which react via nucleophilic substitution under suitable conditions to form a covalent bond. A variety of suitable bond-forming reactions are known in the art. See, for example, March, Advanced Organic Chemistry, fourth edition, New York: John Wiley and Sons (1992), Chapters 10 to 16; Carey and Sundberg, 20 Advanced Organic Chemistry, Part B, Plenum (1990), Chapters 1-11; and Collman et al., Principles and Applications of Organotransition Metal Chemistry, University Science Books, Mill Valley, CA (1987), Chapters 13 to 20; each of which is 25 incorporated herein by reference in its entirety. Examples of suitable electrophilic groups include reactive carbonyl groups, such as carbonyl chloride (acyl chloride) and carbonyl pentafluorophenyl ester groups, reactive sulfonyl

groups, such as the sulfonyl chloride group, and reactive phosphonyl groups. Other electrophilic groups which can be used include terminal epoxide groups and the isocyanate group. Suitable nucleophilic groups include primary and secondary amino groups and alcohol (hydroxyl) groups.

Examples of suitable scaffold precursors with specified reactive groups are shown below.

10 In these examples, each R is, independently, an additional reactive group which can be the same as the specified reactive group or a different group.

Illustrated below are examples of suitable peripheral moiety precursors having amino groups.

$$^{t}BuO$$
 NH_{2}
 AcO
 NH_{2}
 AcO
 NH_{2}
 NH_{2}

5 R in this case is an amino acid side chain, 'Boc is 'butoxycarbonyl, Ac is acetyl and 'Bu is tertiary butyl.

Examples of scaffold precursors and peripheral moiety precursors which have complementary reactive groups include the following, which are provided for the purposes of

illustration and are not to be construed as limiting in any way:

- The scaffold precursor includes from two to about six reactive carbonyl groups, reactive sulfonyl groups or
 reactive phosphonyl groups, or a combination thereof. Each peripheral moiety precursor includes a primary or secondary amino group which reacts with the scaffold precursor to form an amide, sulfonamide or phosphonamidate bond.
- 2. The scaffold precursor includes from two to about six primary or secondary amino groups or a combination thereof. Each peripheral moiety precursor includes a reactive carbonyl group, a reactive sulfonyl group or a reactive phosphonyl group.
- 3. The scaffold precursor includes from two to about six terminal epoxide groups. Each peripheral moiety precursor includes a primary or secondary amino group. In the presence of a suitable Lewis acid, the scaffold precursor and the peripheral moiety precursors react to form β -amino alcohols.
- 20 4. The scaffold precursor includes from two to about six primary or secondary amino groups. Each peripheral moiety precursor contains a terminal epoxide group.
 - 5. The scaffold precursor includes from two to about six isocyanate groups. Each peripheral moiety precursor

contains a primary or secondary amino group which reacts with the scaffold precursor to form a urea.

- 6. The scaffold precursor includes from two to about six primary or secondary amino groups, or a combination5 thereof. Each peripheral moiety precursor contains an isocyanate group.
- 7. The scaffold precursor includes from two to about six isocyanate groups. Each peripheral moiety precursor contains an alcohol group which reacts with the scaffold precursor to form a carbamate.
- 8. The scaffold precursor includes from 2 to about 6 aromatic bromides. Each peripheral moiety precursor is an organo-tributyl-tin compound. The scaffold precursor and the peripheral moiety precursors are reacted in the presence of a suitable palladium catalyst to form one or more carbon-carbon bonds.
 - 9. The scaffold precursor includes from 2 to about 6 aromatic halides or triflates. Each peripheral moiety precursor includes a primary or secondary amino groups.
- 20 The scaffold precursor and the peripheral moiety precursors are reacted in the presence of a suitable palladium catalyst to form one or more carbon-nitrogen bonds.

- 10. The scaffold precursor includes from two to about six amino groups. Each peripheral moiety precursor contains an aldehyde or ketone group which reacts with the scaffold precursor under reducing conditions (reductive amination) to form an amine.
- 11. The scaffold precursor includes from two to about six aldehyde or ketone groups. Each peripheral moiety precursor contains an amino group which reacts with the scaffold precursor under reducing conditions (reductive amination) to form an amine.
- 12. The scaffold precursor includes from two to about six phosphorous ylide groups. Each peripheral moiety precursor contains an aldehyde or ketone group which reacts with the scaffold precursor (Wittig type reaction) to form an alkene.
- 13. The scaffold precursor includes from two to about six aldehyde or ketone groups. Each peripheral moiety precursor contains a phosphorous ylide group which reacts with the scaffold precursor (Wittig type reaction) to form 20 an alkene.

The scaffold is that portion of the scaffold precursor which remains after each reactive group of the scaffold precursor has reacted with a peripheral moiety precursor.

A peripheral moiety is that portion of the peripheral

moiety precursor which is bonded to the scaffold following the bond-forming reaction. A peripheral moiety which results from the reaction of a particular peripheral moiety precursor with a reactive functional group of a scaffold precursor is said to be "derived" from that peripheral moiety precursor.

A peripheral moiety precursor can include one or more functional groups in addition to the reactive group. One or more of these additional functional groups can be

10 protected to prevent undesired reactions of these functional groups. Suitable protecting groups are known in the art for a variety of functional groups (Greene and Wuts, Protective Groups in Organic Synthesis, second edition, New York: John Wiley and Sons (1991), incorporated herein by reference). Particularly useful protecting groups include t-butyl esters and ethers, acetals, trityl ethers and amines, acetyl esters, trimethylsilyl ethers and trichloroethyl ethers and esters.

The compounds within the set are mass-coded as a

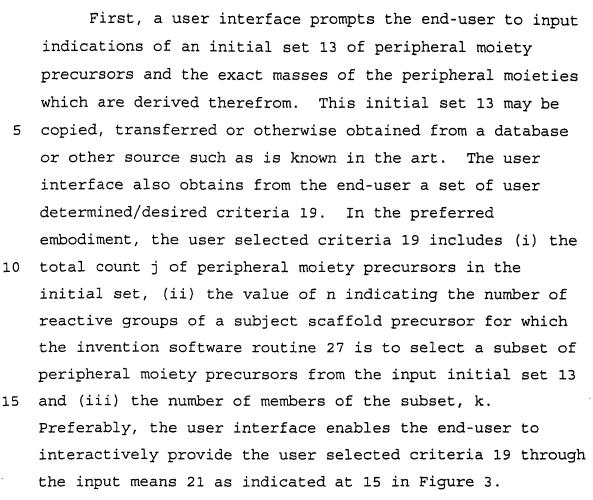
result of the selection of a subset of suitable peripheral
moiety precursors. The subset of peripheral moiety
precursors is selected such that for a scaffold precursor
having n reactive groups, where n is an integer from 2 to
about 6, there exist at least about 50, 100, 250 or 500

different combinations of n peripheral moieties derived
from the peripheral moiety precursor subset. At least
about 90% of the possible combinations of n peripheral
moieties derived from the peripheral moiety precursors

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within the subset will have a distinct mass sum. embodiment, the selection of suitable peripheral moiety precursors for the production of a mass-coded set of compounds includes one or more automated steps utilizing 5 hardware apparatus, software apparatus or any combination thereof. In the preferred embodiment, a digital processor assembly employs a suitable software routine which selects a subset of peripheral moiety precursors which minimize or eliminate mass redundancy in the library. Figure 3 is illustrative of such apparatus employing a digital processor assembly for carrying out the present invention method.

Referring to Figure 3, there is shown a computer system 25 formed of (a) a digital processor 11 having 15 working memory 17 for executing programs, routines, procedures and the like, (b) input means 21 coupled to the digital processor 11 for providing data, parameters and the like to support execution of the programs, routines and/or procedures in the digital processor working memory 17, and (c) output means 23 coupled to the digital processor 11 for displaying results, prompts, messages and the like from operation of the digital processor 11. The input means 21 include a keyboard, mouse and the like common in the art. The output means 23 include a viewing monitor, printer and 25 the like common in the art. The invention software routine 27 is executed in the working memory 17 by the digital processor 11 as follows.



The digital processor 11 is responsive to the

20 foregoing input and stores the indications of the initial

set 13 of peripheral moiety precursors in a memory area 29

or data storage system associated locally or off disk with

the software routine 27. That is, the memory area 29 or

data storage system supports the invention software routine

25 27. For each peripheral moiety precursor in the initial

set 13 as indicated in memory area 29, an identifier and

indication of respective exact mass of the the peripheral

moiety derived from the peripheral moiety precursor is

provided to the software routine 27. Upon receipt of the peripheral moiety precursor identifiers, indications of exact mass, and user selected criteria (n, j and k), the software routine 27 determines and generates a subset of k 5 peripheral moiety precursors which minimize or eliminate mass redundancy in a resulting library of compounds of the formula XYn, wherein X is a scaffold, each Y is, independently, a peripheral moiety, and n is an integer greater than 1, typically from 2 to about 6. Preferably, 10 the software routine 27 determines a subset of peripheral moiety precursors in which at least about 90% of the possible combinations of n peripheral moieties derived from the subset have a distinct mass sum. The details of the software routine 27 employed in the preferred embodiment 15 are discussed next for purposes of illustration and not limitation. It is understood that other software or firmware routines for accomplishing the present invention method of selecting a subset of the initial set 13 of peripheral moiety precursors are suitable and within the purview of one skilled in the art given this disclosure.

A typical situation involves a scaffold precursor with n reactive groups, where n is an integer, a set of j peripheral moiety precursors, where j is an integer 6 or greater, where the peripheral moieties derived from the peripheral moiety precursors have molecular masses y_1 , $y_2, \ldots y_j$. An example of a software routine which can be employed to select a suitable subset of k peripheral moiety

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precursors $(k \le j)$ from the set of j peripheral moiety precursors includes the following steps:

- From an initial set of j peripheral moiety precursors, choose every set of two peripheral moiety precursors.
- If $y_a = y_b$, randomly remove either y_a or y_b .
 - 2. From the remaining set of peripheral moiety precursors, choose every set of four peripheral moiety precursors. If $y_a + y_b = y_c + y_d$, randomly remove either y_a , y_b , y_c or y_d .
- 10 3. From the remaining set of peripheral moiety precursors, choose every set of six peripheral moiety precursors. If $y_a + y_b + y_c = y_d + y_e + y_f$, randomly remove either y_a , y_b , y_c , y_d , y_e or y_f .
- If at any step 1 through 3 the remaining number of peripheral moiety precursors becomes < k, then there is no mass coded subset k which can be made from set j, and a new set j must be employed.
- 4. From the remaining computer selected set of peripheral moiety precursors, choose any or all subsets of k peripheral moiety precursors.
 - 5. Generate all possible combinations of n peripheral moiety precursors from this subset.



6. If the % mass redundancy of the resulting set of combinations is found to be unacceptable, repeat step 5 until a desired mass coded library has been obtained or no further possible combinations of peripheral moiety precursors remain. In the latter case, begin again with step 1.

Once an above subset of mass-coded peripheral moiety precursors is determined, the scaffold precursor is contacted with the subset of complementary peripheral moiety precursors under conditions suitable for bondforming reactions to occur between the peripheral moiety precursors and the scaffold precursor. The mass-coded set of compounds is, preferably, synthesized in solution as a combinatorial library.

The foregoing selection of a subset from a larger peripheral moiety precursor set and generation of a mass-coded set of compounds using the selected subset is more generally illustrated in Figures 1A and 1B. Referring to Figure 1A, the larger set of peripheral moiety precursors is provided at 31 from known sources. The end-user (e.g., chemist) selects an initial set of j peripheral moiety precursors from the larger set 31 at step 33. Typically the chemist chooses all of the larger set to form the initial set at 33. The invention mass coding selection procedure 35 is applied to the initial set. The result of the mass-coding procedure 35 is a subset 37 of peripheral



moiety precursors that satisfies the mass-coding criteria outlined above. In step 39, this subset of peripheral moiety precursors is used to generate all theoretical subsets of of k peripheral moiety precursors. Also in step 5 39, the mass redundancies of the libraries obtained from all theoretical subsets of k peripheral moieties are calculated, and only those subsets which yield mass-coded libraries, as defined above, are passed to 41. result is one or more subsets 41 of k peripheral moiety 10 precursors in which there are 50, 100, 250, or 500 distinct combinations of n peripheral moiety precursors in a given subset and at least 90% of all possible combinations of n peripheral moieties derived from a given subset have a molecular mass sum which is distinct from the molecular 15 mass sums of all of the other combinations of n peripheral moieties, as discussed above. The subset(s) 41 of peripheral moiety precursors would subsequently yield masscoded sets of compounds when contacted with an appropriate scaffold precursor in the manner discussed above.

As an alternative to the single-step application of the invention mass-coding selection procedure 35 in Figure 1A, multiple or stepped application of procedure 35 is suitable and in certain cases may be advantageous. For instance, using mass-coding procedures at each level allows for rapid sorting into distinct sets, each of which may yield optimal mass-coding. During the mass-coding process, certain criteria reduce the set size as it is passed into the next layer through mass-coding. This multi-layer



approach yields advantages in speed and the elimination of mass redundancy.

Multiple application of mass-coding selection procedure 35 on initial set 33 is illustrated in Figure 1B.

5 Here initial set 33 is divided into plural parts (the starting larger set of peripheral moiety precursors 31 and chemist selection 33 being similar to that in Fig. 1A).

The mass-coding selection procedure 35 is applied to each plural part and results in intermediate resultant sets 43A, 43B, 43C. The mass-coded selection procedure 35 is applied in a second round/level. but this time with intermediate resultant sets 43A, 43B, 43C. This produces final sets 45A, 45B, 45C. Step 39 is as in Figure 1A and generates the subsets 47A, 47B, 47C of k peripheral moiety precursors 15 that would subsequently yield mass-coded stes of compounds when contacted with an appropriate scaffold precursor in a manner discussed above.

It is understood that other variations between the approach illustrated in Figure 1A and that in Figure 1B are within the purview of one skilled in the art. The foregoing discussion and Figures are for purposes of illustrating and not limiting the present invention method.

In one embodiment, the scaffold precursor is contacted with all members of the peripheral moiety precursor subset simultaneously. In general, a scaffold precursor having n reactive groups, where n is an integer from 2 to about 6, will be contacted with at least about n molar equivalents relative to the scaffold precursor of peripheral moiety

precursors from the selected subset. For example, the scaffold precursor can be contacted with a solution comprising each member of the subset in approximately equal concentrations. For example, if the scaffold precursor includes n reactive groups, where n is an integer greater than 1, and the number of peripheral moiety precursors in the subset is denoted by p, the scaffold precursor can be contacted with about n/p to about (1.1)n/p molar equivalents of each peripheral moiety precursor.

In another embodiment, the scaffold precursor is contacted with the members of the peripheral moiety precursor subset sequentially. This results in the formation of intermediate partially reacted scaffold precursor molecules which include at least one peripheral 15 moiety and at least one reactive group. For example, the scaffold precursor can be contacted with one or more peripheral moiety precursors under conditions suitable for bond formation to occur. The resulting intermediates can then be contacted with one or more additional peripheral 20 moiety precursors under suitable conditions for bond formation to occur. These steps can be repeated until each scaffold precursor reactive group has reacted with a peripheral moiety precursor.

In one embodiment, the reactive groups of the scaffold 25 precursor can react sequentially with the subset of peripheral moiety precursors using a suitable reactive group protection/deprotection scheme. For example, the scaffold precursor can include two or more sets of reactive

groups, where one set is unprotected and another set is protected, or where two sets are masked by different protecting groups. An example is the use of the scaffold precursor

5

which contains one unprotected reactive group and two protected reactive groups. In this case, the unprotected pentafluorophenyl ester can react with a peripheral moiety precursor first (e.g., a primary amine). Either the Cl₃CCH₂O-protected group or the benzyloxy-protected group can then be deprotected using standard methods and reacted with a set of peripheral moiety precursors. Finally, the remaining protected group or groups can be deprotected and reacted with a set of peripheral moiety precursors.

Following the reaction of each scaffold precursor reactive group with a peripheral moiety precursor, any peripheral moiety having a protected functional group can be deprotected using methods known in the art.

The ability to identify individual scaffold plus
20 peripheral moiety combinations derived from such a mixture
is a consequence of the mass-coding of the library and the
ability of mass spectrometry to identify a molecular mass.

This allows the identification of individual scaffold plus peripheral moiety combinations within the set which have a particular activity, such as binding to a particular biomolecule.

In one embodiment, the present invention provides a method for identifying a compound or compounds within a mass-coded combinatorial library which bind to, or are ligands for, a biomolecule, such as a protein or nucleic acid molecule. The mass-coded combinatorial library can be 10 produced, for example, by the method of the invention disclosed above. The target biomolecule, such as a protein, is contacted with the mass-coded combinatorial library, and, if any members of the library are ligands for the biomolecule, biomolecule-ligand complexes form. 15 which do not bind the biomolecule are separated from the biomolecule-ligand complexes. The biomolecule-ligand complexes are dissociated and the ligands are separated and their molecular masses are determined. Due to the masscoding of the combinatorial library, a given molecular mass 20 is characteristic of a unique combination of peripheral moieties or only a small number of such combinations. Thus, a ligand's molecular mass allows the determination of its composition.

In one embodiment, the target is immobilized on a 25 solid support by any known immobilization technique. solid support can be, for example, a water-insoluble matrix contained within a chromatography column or a membrane. The mass-coded set of compounds can be applied to a water-



insoluble matrix contained within a chromatography column.

The column is then washed to remove non-specific binders.

Target-bound compounds (ligands) can then be dissociated by changing the pH, salt concentration, organic solvent

5 concentration, or other methods, such as competition with a known ligand to the target. The dissociated ligands are injected directly onto a reverse phase column. The reverse phase column acts as a concentrator/collector and can be interfaced directly to a mass spectrometer, such as an electrospray mass spectrometer (ES-MS). Mass information provided by the mass spectrometer is sufficient for identifying the combination of scaffold and peripheral moieties within the ligand.

In another embodiment, the target is free in solution
and is incubated with the mass-coded set of compounds.

Compounds which bind to the target (ligands) are
selectively isolated by a size separation step such as gel
filtration or ultrafiltration. In one embodiment, the
mixture of mass-coded compounds and the target biomolecule
are passed through a size exclusion chromatography column
(gel filtration), which separates any ligand-target
complexes from the unbound compounds. The ligand-target
complexes are transferred to a reverse-phase chromatography
column, which dissociates the ligands from the target. The
dissociated ligands are then analyzed by mass spectrometry.
Mass information provided by the mass spectrometer is
sufficient for identifying the scaffold and peripheral
moiety composition of the ligand. This approach is

particularly advantageous in situations where immobilization of the target may result in a loss of activity.

Once single ligands are identified by the abovedescribed process, various levels of analysis can be
applied to yield SAR information and to guide further
optimization of the affinity, specificity and bioactivity
of the ligand. For ligands derived from the same scaffold,
three-dimensional molecular modeling can be employed to
identify significant structural features common to the
ligands, thereby generating families of small-molecule
ligands that presumably bind at a common site on the target
biomolecule.

In order to identify a consensus, highest affinity,

ligand for a particular binding site, this analysis should include a ranking of the members of a given ligand family with respect to their affinities for the target. This process can provide this information by identifying both low and high affinity ligands for a target biomolecule in one experiment. For example, when the screen utilizes an immobilized target, the dissociation rate of the ligand is inversely correlated with the number of column volumes employed during of the ligand from its target. When the screen utilizes the target free in solution, weak affinity ligands can be selected by using a higher concentration of the target.

Given that each mass-coded set of compounds is synthesized with a limited number of peripheral moiety

precursors, the disclosed approach can, in certain cases, identify a superior ligand which combines structural features of molecules synthesized in separate libraries.

When possible, the analysis of ligand structural

features is based on information regarding the target
biomolecule's structure, wherein the hypothetical consensus
ligand is computationally docked with the putative binding
site. Further computational analysis can involve a dynamic
search of multiple lowest energy conformations, which

allows comparison of high affinity ligands that are derived
from different scaffolds. The end goal is the
identification of both the optimal functionality and the
optimal vectorial presentation of the peripheral moieties
that yields the highest binding affinity/specificity. This
may provide the basis for the synthesis of an improved,
second-generation scaffold.

Due to the modular design of the mass-coded compounds, computational analysis may identify the point of attachment on the scaffold that has the least functional importance

20 with respect to affinity for the target. In many cases, the ligand will not be completely engulfed by the target biomolecule, and one peripheral moiety will be pointed away from the biomolecule towards the bulk solvent. Three-dimensional alignment of a family of ligands will reveal a high degree of functional variability at the site that is presented to the solvent. Modification at this site can then be used to optimize the affinity. For example, the noncritical reactive site can be removed and replaced with



a small unreactive group, such as a hydrogen atom or a methyl group. A set of compounds structurally identical except for the peripheral moiety at this position can be examined to identify compounds that most effectively

5 inhibit or promote the binding of another protein/DNA/RNA molecule. Also, the peripheral moiety at this position can be modified to link two ligands together. The joining of two ligands could in certain cases yield a ligand with improved affinity and specificity, if one joins molecules that bind to adjacent sites, or yield a designed biomolecule dimerizer.

A variety of screening approaches can be used to obtain ligands that possess high affinity for one target but significantly weaker affinity for another closely related target. One screening strategy is to identify ligands for both biomolecules in parallel experiments and to subsequently eliminate common ligands by a cross-referencing comparison. In this method, ligands for each biomolecule can be separately identified as disclosed above. This method is compatible with both immobilized target biomolecules and target biomolecules free in solution.

For immobilized target biomolecules, another strategy is to add a preselection step that eliminates all ligands that bind to the non-target biomolecule from the library. For example, a first biomolecule can be contacted with a mass-coded combinatorial library as described above. Compounds which do not bond to the first biomolecule are



then separated from any first biomolecule-ligand complexes which form. The second biomolecule is then contacted with the compounds which did not bind to the first biomolecule. Compounds which bind to the second biomolecule can be identified as described above and have significantly greater affinity for the second biomolecule than to the first biomolecule.

The screening approach detailed above can also be applied to identify ligands that selectively interact with 10 an altered version of the same biomolecule, wherein the first biomolecule is the unaltered biomolecule and the second biomolecule is an altered or variant version of the biomolecule. The second biomolecule can, for example, have an amino acid sequence which differs from the amino acid 15 sequence of the first biomolecule by the insertion, deletion or substitution of one or more amino acid residues. For example, the second biomolecule can include a specific amino acid mutation that is linked to the progression of a particular disease. Alternatively, the 20 second biomolecule can also differ from the first biomolecule in having a different post-translational modification, such as an extra site of phosphorylation or glycosylation, or it may be truncated or aberrantly fused with another biomolecule.

The screening approach detailed above can also serve as a method for identifying small molecule ligands that bind at the same site on a biomolecule as another known, biologically relevant ligand. This known ligand can be



another biomolecule, such as a protein or peptide, or it can be a DNA or RNA molecule, or a substrate or cofactor involved in an enzymatic reaction. In one embodiment, the first and second biomolecules are both proteins. The first protein is a complex of the protein and the known ligand, while the second protein is the protein alone. Compounds which bind to the protein alone, but not to the complex of the protein with the known ligand, bind to the protein at the binding site of the known ligand. This approach is especially well suited to the development of small molecule replacements of known therapeutic ligands, such as peptides or proteins.

An advantage of the present method is that it can be used to identify chemical compounds that bind tightly to any biomolecule of interest, even when the function of that biomolecule is not well understood, as is often the case with gene products defined through genomics, or when a functional assay is not available. The screening technologies described can be miniaturized to provide massive parallel screening capabilities.

A ligand for a biomolecule of unknown function which is identified by the method disclosed above can also be used to determine the biological function of the biomolecule. This is advantageous because although new gene sequences continue to be identified, the functions of the proteins encoded by these sequences and the validity of these proteins as targets for new drug discovery and development are difficult to determine and represent

drugs).



perhaps the most significant obstacle to applying genomic information to the treatment of disease. Target-specific ligands obtained through the process described in this invention can be effectively employed in whole cell biological assays or in appropriate animal models to understand both the function of the target protein and the validity of the target protein for therapeutic intervention. This approach can also confirm that the target is specifically amenable to small molecule drug discovery. The ligands obtained through the process described in this invention are small molecules and are, thus, similar to actual human therapeutics (small molecule

In one embodiment, a member of a combinatorial library is identified as a ligand for a particular biomolecule using the method described above. The ligand can then be assessed in an in vitro assay for the effect of the binding of the ligand to the biomolecule on the function of the biomolecule. For a biomolecule having a known function, the assay can include a comparison of the activity of the biomolecule in the presence and absence of the ligand. If the biomolecule is of unknown function, a cell which expresses the biomolecule can be contacted with the ligand and the effect of the ligand on the viability or function of the cell is assessed. The in vitro assay can be, for example, a cell death assay, a cell proliferation assay or a viral replication assay. For example, if the biomolecule is a protein expressed by a virus, the a cell infected with

the virus can be contacted with a ligand for the protein. The affect of the binding of binding of the ligand to the protein on viral viability can then be assessed.

A ligand identified by the method of the invention can also be assessed in an *in vivo* model or in a human. For example, the ligand can be evaluated in an animal or organism which produces the biomolecule. Any resulting change in the health status (e.g., disease progression) of the animal or organism can be determined.

10 For a biomolecule, such as a protein or a nucleic acid molecule, of unknown function, the effect of a ligand which binds to the biomolecule on a cell or organism which produces the biomolecule can provide information regarding the biological function of the biomolecule. For example, 15 the observation that a particular cellular process is inhibited in the presence of the ligand indicates that the process depends, at least in part, on the function of the biomolecule.

The mass-coded libraries provided by the present

20 method enable the development of an information set that
describes how the universe of small molecules interacts
with any biomolecule encoded within the human and other
genomes. This information set would include data
regarding: 1) those libraries and components therein which

25 bind to the target biomolecule, 2) quantitative structureactivity relationships (SAR) on chemical functionalities
which contribute to the binding affinity of a compound for
a biomolecule target, and 3) the domains of the biomolecule

that are bound by chemical compounds. The database can be used to expedite drug development in a number of ways, for example, by identifying chemical pharmacophores that interact with high affinity with a specific drug binding 5 site.

The invention will now be further and more specifically described in the following examples.

EXAMPLES

Example 1 Application of Mass-coding by Computer

10 Algorithms: Comparison of Mass-coded and NonMass-coded Combinatorial Libraries

The following is an analysis of the application of mass-coding algorithms towards the design of

combinatorial libraries. The sequence of steps involved in identifying subsets of peripheral moiety precursors that can be allowed to react with a predetermined scaffold precursor to yield a mass-coded combinatorial library of compounds with the molecular formula X(Y)_n is shown in Figure 1A; Figure 1B is an alternate sequence of steps. It is to be understood that the molecular mass sum of the combination of the n peripheral moieties in a particular compound of the formula X(Y)_n is the collective contribution of the n peripheral moieties to the molecular mass of the compound. As each compound within the library includes a constant scaffold, the

mass redundancy of the mass-coded library is equivalent to the molecular mass sum redundancy of all combinations of n peripheral moieties derived from the identified subset of peripheral moiety precursors.

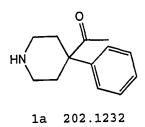
The mass-coding analysis was performed on the initial set of 22 peripheral moieties shown below. initial set was selected arbitrarily. Included were peripheral moiety precursors having the same exact mass. The master set consisted of the peripheral moiety 10 precursors shown below, along with the exact masses of the resulting peripheral moieties. The molecular masses given are the exact molecular masses and not the isotope The exact molecular masses are also adjusted for any atoms which are lost as a result of the reaction 15 with the scaffold precursor (in this case the loss of a hydrogen atom). From the initial set of 22 peripheral moiety precursors, two sets of 16 peripheral moiety precursors were generated. One set was chosen by the computer using the mass coding algorithm described 20 herein (computer selected set). The other set was randomly chosen.

From each set of 16 peripheral moiety precursors the computer generated every possible subset of 12 peripheral moiety precursors. These subsets were used 25 to generate all combinations of peripheral moiety precursors taken 4 at a time (representing libraries synthesized with a scaffold precursor having four reactive groups, such as four pentafluorophenyl esters).



This process yielded two sets of 16 peripheral moiety precursors containing 1820 subsets of 12 each. Theoretically, these subsets of 12 peripheral moiety precursors would each yield a library of 1365 compounds 5 containing different peripheral moiety combinations when allowed to react simultaneously with an appropriate scaffold precursor containing four reactive groups (15!/[(15-4)!*4!] = 1365). The computer sorted every precursor subset and checked for mass redundancy in the 10 resultant libraries (in this example mass redundancies were checked to the second significant digit after the decimal point).

It is noteworthy that the mass coding algorithms and the mass redundancy check are both flexible in that 15 it is possible to adjust the computational filter to check mass redundancy to any significant figure. architecture for mass-coding allows for rapid automated mass-coding, insures that a significant portion of the libraries generated with the computer selected set have less than 10% redundancy, and includes parameters for peripheral moiety precursor selection outside of exact The computational requirements for this selection are fairly significant. The mass-coding algorithms are essential because it is computationally intractable to 25 brute force calculate and check every possible set of peripheral moiety precursors from a master set of 60 or more peripheral moiety precursors.



$$\checkmark$$
N

20a 72.0813

24a 100.1126

36a 74.0606

53a 153.1392

69a 68.0500

$$H_2N$$
 NH_2

97a 73.0402

19a 196.1126

21a 44.0500

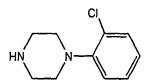
26a 58.0657

52a 153.1392

54a 100.0762

70a 163.0984





76a 195.0689

78a 140.0034

86a 230.1756

$$H_2N$$

104a 116.0711

77a 161.9918

94a 186.1494

108a 101.0351

The computer selected set of 16 peripheral moiety precursors contained 86a, 79a, 13a, 108a, 76a, 20a, 69a, 1a, 70a, 26a, 24a, 36a, 97a, 94a, 104a, and 21a. set of 16 randomly chosen peripheral moiety precursors 5 contained 79a, 13a, 20a, 69a, 1a, 26a, 24a, 104a, 52a, 54a, 19a, 77a, 53a, 21a, 55a, 36a. The libraries generated from the computer selected set of peripheral moiety precursors had an average mass redundancy of 11.5% per library with 234 libraries having mass 10 redundancies of less than 5% and 972 libraries having mass redundancies of less than 10% (Figure 2A). libraries generated from the randomly chosen set of peripheral moiety precursors had an average mass redundancy of 60.7% with no libraries having a mass 15 redundancy of less than 10% (Figure 2B). A direct graphical comparison of the mass redundancies of the two sets of libraries is shown in Figure 2C. The libraries derived from the computer-selected set of peripheral moiety precursors and the corresponding mass redundancies are listed in the Table below. 20

Example 2 Development of ligands for a monofunctional protein

A mass-coded combinatorial library can be used to identify ligands that have a high affinity for a monofunctional protein. One such monofunctional protein is the serine protease trypsin. Ligands that exhibit a

high affinity for trypsin would be candidates to screen further for their ability to inhibit the proteolytic activity of trypsin. The identification of ligands to trypsin involves the following steps: trypsin is 5 covalently biotinylated by incubation of the protein with a chemically activated biotin precursor. biotin-trypsin conjugate is immobilized by binding to a streptavidin-derivatized water-insoluble column matrix. The mass-coded combinatorial library is solubilized in 10 an appropriate binding buffer and injected onto a column containing the trypsin+streptavidin complex. Compounds that do not bind to the column are washed off with binding buffer. Compounds that bind to the column are dissociated by a change in the buffer conditions, such 15 as a change in the pH or an increase in the percentage of organic solvent. These compounds are then loaded onto a reversed-phase column that is placed downstream of the trypsin+streptavidin column. The compounds are eluted from the reversed-phase column and analyzed by mass spectrometry. Molecular masses that correspond to ligands for trypsin are identified by eliminating those masses which are also observed when the library is similarly screened with a streptavidin column. molecular mass of each trypsin ligand identifies one 25 combination of peripheral moieties plus scaffold. The individual compound or compounds that result from the identified combination of peripheral moieties plus



scaffold are synthesized and tested for their in vitro activity as inhibitors of trypsin.

Example 3 Development of ligands for a multifunctional protein

Many proteins, especially human proteins, are multifunctional, and these functions are often mediated through interactions with multiple proteins. that bind to different sites on the protein might 10 therefore yield different therapeutic results. human protein HSP70 is one such example of a multifunctional protein. HSP70 has been shown to interact with multiple polypeptides, which are largely unfolded, to facilitate their translocation and folding. 15 This role of HSP70 has been implicated in a variety of physiological processes, including antigen processing/presentation, development of certain cancers, and replication of a variety of human viruses. coded combinatorial library can be used to identify 20 ligands that have a high affinity for HSP70 and bind at different sites. These ligands for HSP70 can be further evaluated in secondary assays to establish their effects on the immune response, cancer progression, and viral infection.

The identification of ligands to HSP70 involves the following steps: HSP70 is covalently biotinylated by incubation of the protein with a chemically activated



biotin precursor. The biotin-HSP70 conjugate is immobilized by binding to a streptavidin-derivatized water-insoluble column matrix. The mass-coded library is solubilized in an appropriate binding buffer and 5 injected onto a column containing the HSP70-streptavidin complex. Compounds that do not bind to the column are washed off with binding buffer. Compounds that bind to the column are dissociated by a change in the buffer conditions, such as a change in the pH or an increase in 10 the percentage of organic solvent. Compounds that are dissociated from the column are loaded onto a reversedphase column that is placed downstream of the HSP70streptavidin column. Compounds are eluted from the reversed-phase column and analyzed by mass spectrometry.

15 Masses that correspond to ligands for HSP70 are identified by eliminating those masses which are also observed when the library is similarly screened with a streptavidin column. The mass of each HSP70 ligand identifies one combination of peripheral moieties plus scaffold. The individual compound(s) that result from the identified combination of peripheral moieties plus scaffold are synthesized and tested for their in vivo ability to affect the immune response, cancer progression, and viral infection.

Development of ligands that affect the 25 Example 3 binding of a known ligand to a protein

It is often the situation that a biologically important ligand is known for a target protein, but development of a high-throughput screen for molecules that modulate the binding of that ligand is not practical. For instance, it is known that HSP70 binds unfolded polypeptides in the presence of ADP, and that the binding of ATP to HSP70 leads to the dissociation of the polypeptide. Mass-coded combinatorial libraries can be used in the discovery of small molecule ligands that affect the binding of ATP, ADP, or unfolded peptides to HSP70, and one configuration is listed below: HSP70 is covalently biotinylated by incubation of the protein with a chemically activated biotin precursor. The biotin-HSP70 conjugate is immobilized by binding to a 15 streptavidin-derivatized water-insoluble column matrix. The mass-coded library is solubilized in an appropriate binding buffer and injected onto a column containing the HSP70-streptavidin complex. Compounds that do not bind to the column are washed off with binding buffer.

20 Compounds that bind to the column are dissociated upon addition of ATP, ADP, or ADP plus an unfolded peptide.

Only compounds that bind to the same sites on HSP70 as these known ligands will be eluted under these conditions. Compounds that are dissociated from the column are loaded onto a reversed-phase column that is placed downstream of the HSP70-streptavidin column. Compounds are eluted from the reversed-phase column and analyzed by mass spectrometry. Masses that correspond

to ligands for HSP70 are identified by eliminating those masses which are also observed when the library is similarly screened with a streptavidin column. The mass of each HSP70 ligand identifies one combination of peripheral moieties plus scaffold. The individual compound(s) that result from the identified combination of peripheral moieties plus scaffold are synthesized and tested in vitro for the ability to compete with these known ligands to HSP70 and for their in vivo ability to affect the immune response, cancer progression, and viral infection.

Example 4 Discovery of small molecule replacements for protein therapeutics

In some instances, the known ligand to a target

protein is in fact another protein, and the binding of
these two proteins confers a therapeutic benefit. An
example of such an interaction is the binding of
granulocyte colony stimulating factor (G-CSF) to the GCSF receptor (G-CSF-R). Replacement of G-CSF with a

non-peptide small molecule can be undertaken using a
mass-coded combinatorial library, and one approach is
detailed below: in two separate and parallel
experiments, the mass-coded library is solubilized in an
appropriate binding buffer and incubated with either the
G-CSF-R alone or the G-CSF-R plus G-CSF. Compounds that
bind to the protein(s) are separated from the unbound

compounds by rapid size exclusion chromatography. binding compounds are loaded with the protein(s) onto a reversed-phase column that is placed downstream of the size exclusion column. The binding compounds are 5 dissociated from the protein(s) and are eluted from the reversed-phase column and analyzed by mass spectrometry. Masses that correspond to compounds that bind to the G-CSF/G-CSF-R interface are identified as those masses which are only observed when the library is screened with G-CSF-R alone; masses which are also observed in the screen with the G-CSF/G-CSF-R complex are ignored. The mass of each interface-specific compound identifies one combination of peripheral moieties plus scaffold. The individual compound(s) that result from the 15 identified combination of peripheral moieties plus scaffold are then synthesized and tested for their in vitro or in vivo ability to mimic G-CSF.

Example 5 Development of small molecules that dimerize two proteins

20 Certain therapeutic proteins, such as
erythropoietin (EPO), are multivalent and act by binding
two molar equivalents of the target protein, thereby
dimerizing the target protein, which, in the case of EPO
is the EPO receptor (EPO-R). The protein replacement
25 strategy outlined in Example 3 can be extended to yield
non-peptide compounds that act therapeutically by

inducing the dimerization of two EPO-R molecules. two separate and parallel experiments, the mass-coded library is solubilized in an appropriate binding buffer and incubated with either EPO-R alone or EPO-R plus EPO. 5 Compounds that bind to the protein(s) are separated from the unbound compounds by rapid size exclusion chromatography. The bound compounds are loaded with the protein(s) onto a reversed-phase column that is placed downstream of the size exclusion column. 10 compounds are dissociated from the protein(s) and are eluted from the reversed-phase column and analyzed by mass spectrometry. Masses that correspond to compounds that bind to the EPO/EPO-R interface are identified as those masses which are observed only when the library is 15 screened with EPO-R alone; masses which are also observed in the screen with the EPO/EPO-R complex are ignored. The mass of each interface-specific compound identifies one combination of peripheral moieties plus scaffold. The individual compound(s) that result from 20 the identified combination of peripheral moieties plus scaffold are synthesized and tested for their in vitro ability to bind to the target protein, EPO-R. compounds exhibiting the highest affinity for the target protein are compared to identify similarities among Ideally, it is observed that one site of 25 them. derivatization on the scaffold is relatively unimportant for high affinity binding. The peripheral moiety at

this site is subsequently replaced with a covalent

tether that joins two molecules of the highest affinity compound to yield a non-peptide compound that dimerizes the target protein, EPO-R.

Example 6 Simultaneous target validation and small-molecule drug discovery

An example of a class of target proteins whose roles in a disease process can be validated by application of target-specific ligands to a bioassay are the proteins encoded by the open reading frames (ORF) of 10 the Herpes Simplex Virus. The identification of ligands to an ORF-encoded protein and the use of the resulting ligands to determine the function of the ORF-encoded protein and its validity as a target for anti-viral drug discovery involves the following steps : the ORF-encoded 15 protein is covalently biotinylated by incubation of the ORF-encoded protein with a chemically activated biotin precursor. The ORF-encoded protein-biotin conjugate is immobilized by binding to a streptavidin-derivatized water-insoluble column matrix. The mass-coded library 20 is solubilized in an appropriate binding buffer and injected onto a column containing the ORF-encoded protein+streptavidin complex. Compounds that do not bind to the column are washed off with binding buffer. Compounds that bind to the column are dissociated by a 25 change in the buffer conditions, such as a change in the pH or an increase in the percentage of organic solvent.

These compounds are loaded onto a reversed-phase column placed downstream of the ORF-encoded protein+streptavidin column. The binding compounds are eluted from the reversed-phase column and analyzed by 5 mass spectrometry. Molecular masses that correspond to ligands for the ORF-encoded protein are identified by eliminating those masses that are also observed when the library is similarly screened with a streptavidin column. The molecular mass of each ligand for the ORF-10 encoded protein identifies one combination of peripheral moieties plus scaffold. The individual compound(s) that result from the identified combination of peripheral moieties plus scaffold are synthesized and tested for their ability to inhibit the replication or transmission 15 of the virus in a mammalian cell bioassay or animal model.

The observation of a virus-specific inhibitory activity implicates the ORF-encoded protein as a critical component of the viral disease process and confirms that the ORF-encoded protein is specifically amenable to small molecule anti-viral drug discovery. Observation of a direct correlation between the relative binding affinities of the ORF-encoded protein-specific ligands and the relative inhibitory concentrations of the ORF-encoded protein-specific ligands further strengthens the identification of the ORF-encoded protein as a target for small molecule anti-viral drug discovery.

Example 7 Development of small molecules that can be applied to the affinity purification of a target protein

A mass-coded combinatorial library can be used to identify ligands that have a high affinity for a target protein. One such target protein is human erythropoietin (EPO), which is expressed and purified industrially for use as a therapeutic drug. Ligands that exhibit a high affinity for EPO can be immobilized on a solid support to generate an EPO-specific affinity matrix.

The identification of ligands to EPO and the construction of an EPO-specific affinity matrix involves the following steps: the mass coded library is 15 solubilized in an appropriate binding buffer and incubated with the EPO protein. Compounds that bind to the EPO protein are separated from the unbound compounds by rapid size exclusion chromatography. These compounds are loaded with the EPO protein onto a reversed-phase 20 column that is placed downstream of the size exclusion The compounds are dissociated from the EPO protein and are eluted from the reversed-phase column and analyzed by mass spectrometry. The molecular mass of each EPO protein-specific ligand identifies one 25 combination of peripheral moieties plus scaffold. individual ligand(s) that result from the identified combination of peripheral moieties plus scaffold are

synthesized and tested for their in vitro ability to bind to the EPO protein. Compounds exhibiting the highest affinity for the EPO protein are compared to identify similarities between the compounds. If it is observed that one reactive site on the scaffold is relatively unimportant for high affinity binding, the peripheral moiety at this site is subsequently replaced with a covalent tether that joins the EPO-specific ligand to a water insoluble matrix, thereby generating an EPO-specific affinity matrix.

Alternatively, the covalent tether is used to join the EPO-specific ligand to a another molecule, such as biotin, which possesses a high affinity for a commercially available affinity matrix (streptavidin-derivatized agarose). The biotin-streptavidin interaction is used as a strong, non-covalent immobilization technique.

Example 8 Development of small molecules that can be applied to the visualization of a target protein

A mass-coded combinatorial library can be used to identify ligands that have a high affinity for a target protein. One such target protein is the human protein telomerase, the expression of which is linked to cancer progression and aging. Ligands that exhibit a high affinity for telomerase can be functionalized with a

radioactive or non-radioactive tag to thereby generate a telomerase-specific affinity probe for visualization of the enzyme in vitro or in vivo. The identification of ligands to telomerase and the construction of a 5 telomerase-specific affinity probe would involve the following steps: a mass-coded library is solubilized in an appropriate binding buffer and incubated with telomerase protein alone. Compounds that bind to the telomerase protein are separated from the unbound 10 compounds by rapid size exclusion chromatography. The binding compounds are loaded with the telomerase protein onto a reversed-phase column that is placed downstream of the size exclusion column. The compounds are dissociated from the telomerase protein and are eluted 15 from the reversed-phase column and analyzed by mass spectrometry.mass of each telomerase protein-specific ligand identifies one combination of peripheral moieties plus scaffold. The individual ligand(s) that result from the identified combination of peripheral moieties 20 plus scaffold are synthesized and tested for their in vitro ability to bind to the telomerase protein. Compounds exhibiting the highest affinity for the telomerase protein are compared to identify similarities between the compounds. Ideally, it is observed that one 25 reactive site on the scaffold is relatively unimportant for high affinity binding. The peripheral moiety at this site is subsequently replaced with a covalent tether that joins the telomerase-specific ligand to a

radioactive moiety or a non-radioactive moiety such as a fluorophore, thereby generating a telomerase-specific affinity probe.

5

EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

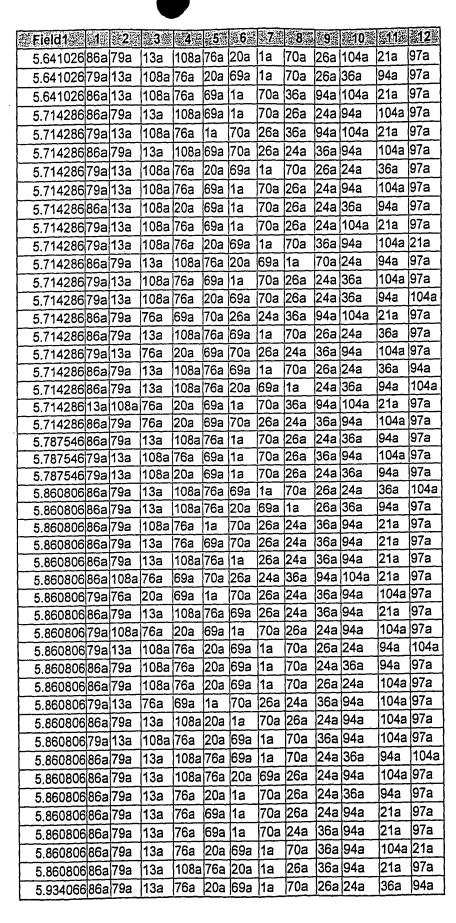
	TABLE													
							1707-00	Para mana						
	Field1	115	€2	3	學4点	5 5×	6	第7 額	8.8	9	\$10	211%	112	
1	2.197802	86a	79a	13a	108a	76a	20a	1a	70a	26a	94a	21a	97a	
-	2.490843	86a	108a	76a	69a	1a	70a	26a	24a	36a	94a	21a	97a	
	2.637363	86a	13a	108a	76a	69a	1a	70a	26a	24a	36a	94a	97a	
Ì	2.783883	86a	79a	13a	108a	76a	20a	69a	1a	70a	26a	94a	21a	
1	2.783883	86a	79a	13a	108a	76a	20a	69a	1a	70a	36a	94a	21a	
1	2.783883	86a	13a	108a	76a	20a	69a	1a	70a	24a	36a	94a	97a	
f	2.783883	86a	79a	13a	108a	76a	70a	26a	24a	36a	94a	21a	97a	
Ì	2.930403	86a	13a	108a	76a	20a	69a	1a	70a	36a	94a	21a	97a	
Ì	2.930403	86a	13a	108a	76a	1a	70a	26a	24a	36a	94a	21a	97a	
Ì	2.930403			108a	76a	69a	1a	70a	26a	36a	94a	21a	97a	
ţ	2.930403	86a	79a	13a	108a	76a	20a	69a	1a	70a	26a	24a	104a	
Ì	3.003663			13a	108a	76a	20a	69a	70a	26a	24a	94a	104a	
t	3.003663			13a	108a	20a	69a	1a	70a	36a	94a	21a	97a	
İ	3.076923	86a	13a	108a	76a	20a	69a	1a	70a	26a	24a	94a	97a	
Ì	3.076923			108a	76a	69a	1a	70a	26a	24a	36a	94a	104a	
Ì	3.076923	86a	13a	108a	76a	20a	69a	1a	70a	26a	94a	21a	97a	
İ	3.076923	86a	108a	76a	20a	69a	1a	70a	24a	36a	94a	104a	97a	
Ì	3.076923	79a	13a	108a	76a	20a	69a	1a	70a	36a	94a		97a	
	3.076923	86a	79a	13a	108a	76a	20a	69a	70a	26a	94a	104a		
Ī	3.076923	86a	79a		108a	76a	20a	1a	70a	36a			97a	
[3.223443	86a		108a		69a		70a		36a		104a		
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-	3.369963			13a	108a					26a			97a	
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ı	3.663004			108a		20a		1a	70a	26a	36a	94a	97a	
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1	3.809524			108a		69a	1a	70a	26a	94a	104a	21a	97a	
	3.809524			13a	108a	76a	1a	70a	26a	24a	94a	21a	97a	
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	3.882784	_		108a		69a	-	26a	36a	94a	104a	21a	97a	
	3.956044	_		108a		20a		70a		24a	94a	104a	97a	
	3.956044	_		13a	108a			69a	1a	70a	24a	36a	94a	
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4,249084			13a	108a	76a	69a	1a	70a	36a	94a	21a	97a
4.249084	86a	79a	13a	108a	76a	20a	1a	70a	26a	24a	94a	97a
4.249084	79a	13a	108a	76a	20a	69a	70a	26a	24a	94a	104a	97a
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4.322344	79a	13a	108a	76a	20a	69a			36a		21a	97a
4.395605	86a	79a	13a	108a		1a			24a		94a	97a
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4.395605			13a	108a		69a	70a		-	36a	94a	21a
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4.542125			13a	108a		1a		24a	36a			97a
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4.542125	86a	79a	13a	76a	20a	69a	1a		24a			97a
4.542125	86a	108a	76a	20a	69a	1a	70a	26a	36a		21a	97a
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4.542125	86a	79a	13a	108a	76a	1a	70a	24a	36a	94a	21a	97a
4.542125	13a	108a	76a	20a	69a	1a	70a	26a	94a	104a	21a	97a
4.542125	86a	13a	108a	76a	20a	69a	1a	26a	36a	94a	21a	97a
4.542125	86a	79a	13a	108a	76a	69a	1a	70a	26a	24a	94a	104a
4.542125	86a	79a	13a	108a	76a	20a	69a	70a	36a	94a	21a	97a
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4.615385	79a	108a	76a	20a	69a	1a	70a	36a	94a		21a	97a
4.688645	86a	79a	13a	108a	76a	20a	69a	1a	70a	26a	21a	97a
4.688645	86a	79a	13a	108a	20a	69a	1a	24a	36a		104a	97a
4.688645	79a	108a	76a	69a	70a	26a	24a	36a	94a	104a	21a	97a
4.688645	86a	108a	76a	69a	1a	70a	26a	24a	36a		104a	Ļ
4.688645				20a	69a	1a					21a	97a
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4.688645					69a	1a	70a		24a			97a
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4.761905		ļ	108a			69a	1a	├──	26a 36a		36a 21a	97a
4.761905			13a	108a		70a		24a				97a
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4.835165			108a		20a		1a	 	24a		94a	104a
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4.835165	86a	13a	108a		20a	69a		26a		94a	21a	97a
4.835165	13a	108a	76a	20a	69a	1a	70a	26a		94a	21a	97a
4.835165	86a	79a	13a	108a	76a	20a	1a	70a		36a	94a	97a
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4.835165			108a	 		69a	1a		24a			97a
				108a				1a	70a			97a
4.908425				108a		1a	70a		24a			97a
4.908425					<u> </u>				24a			97a
4.981685			108a		20a		1a	70a			104a	
4.981685			108a		20a		!		36a			21a
4.981685			108a			69a	}		26a			
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4.981685				!		1a	70a		24a		94a	104a
4.981685			108a	-		69a			26a		104a	
4.981685				69a	1a							97a
4.981685				108a		1a	70a		36a		21a	97a
4.981685			108a			69a			26a		94a	104a
4.981685	86a			69a	1a	70a	26a		36a		21a	97a
4.981685			13a	108a					26a		21a	97a
4.981685			108a		69a	1a		24a	36a		104a	
4.981685			108a		69a	1a	70a		24a		21a	97a
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5.128205						1a	70a		36a	94a	21a	97a
5.128205			108a		1a		26a		36a	94a	21a	97a
5.201465			108a		20a		1a	70a	26a	36a	104a	21a
5.274725				108a			1a	26a	24a	94a	104a	97a
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5.347985			108a	 		69a	1a	70a				
5.421246	 		13a	76a	}	69a	1a	70a	26a		21a	97a
5.421246			108a				<u> </u>		24a			97a
5.421246	<u> </u>		!	108a		69a	1a	70a	26a		94a	97a
5.421246	79a		108a			69a	1a	70a	26a		94a	97a
5.421246	79a	13a	108a	76a		69a	1a		24a		104a	
5.421246	86a	79a	108a			!		24a	36a		104a	
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5.421246	79a	13a	76a	20a	69a	1a			24a		94a	97a
5.421246	86a	79a	108a	ļ	20a			26a	36a		21a	97a
5.421246	86a	79a	108a	76a		69a		26a	24a		94a	97a
5.421246	86a	79a	108a	20a	69a	1a		<u> </u>	24a		104a	<u> </u>
5.421246	86a	79a	108a	76a	69a	70a	26a		36a		104a	
5.421246	79a	13a	108a	76a	20a	69a	70a	36a			21a	97a
5.421246	86a	79a	13a	108a	76a	69a	1a	70a	26a		94a	97a
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5.494505	86a		108a			69a	1a	70a	26a		36a	97a
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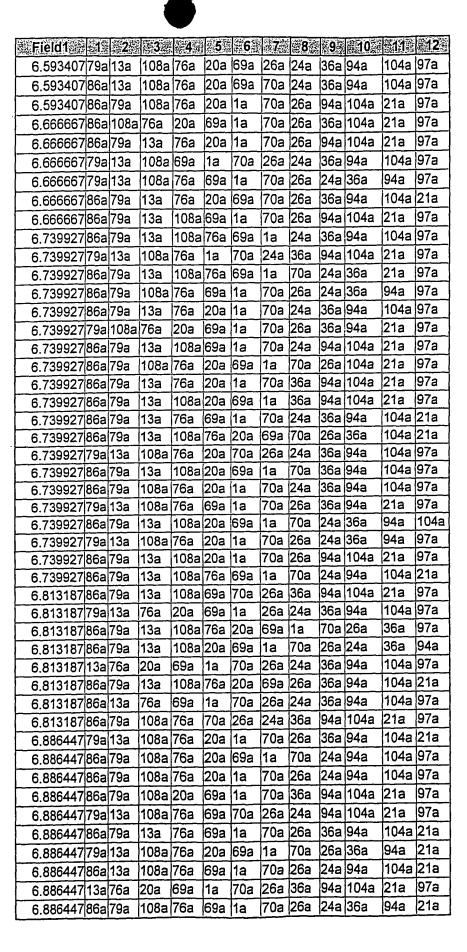




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6.007326			108a			1a	70a		36a		104a	
6.007326			13a	108a		1a			24a			21a
6.007326			108a	<u>'</u>		1a	70a		36a			97a
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6.007326	108	76a		69a	1a		26a					97a
6.007326			108a			69a	70a	-				97a
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6.007326	86a	13a	108a	76a	20a	69a	1a	24a	36a		104a	
6.007326	13a	108a	76a	20a	<u> </u>	1a	-	24a	36a		104a	
6.007326	86a	79a	13a	76a			26a		36a		104a	
6.007326	86a		108a			69a	1a		24a		104a	
6.007326	86a		108a		1a		26a		36a		104a	
6.007326				108a			1a					97a
6.007326						1a		24a	36a			97a
6.007326			108a			1a	70a		36a		104a	
6.080586			108a		20a		1a	70a			21a	97a
6.080586			13a	108a			69a		36a		104a	
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6.080586			13a	108a	,		1a					97a 97a
6.080586			76a								21a	97a
6.080586			13a			69a	1a		26a		94a 104a	
6.153846			13a	108a			69a		24a			97a
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6.153846				108a					24a			
6.153846					69a		70a	}		94a	104a	
6.153846							26a			94a	104a	21a
6.153846			13a	108a			!	70a		36a	94a	97a
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6.153846				69a	1a	ļ	24a		 		21a	97a
6.153846				108a						94a	104a	
6.153846			108a		20a					94a	104a	
6.153846	86a	79a	13a		20a			26a		94a	21a	97a
6.153846	86a	79a	13a	108a			70a			104a	21a	97a
6.153846	86a	79a	13a	108a	76a	69a	1a	70a		36a	94a	21a
6.153846	86a	79a	13a	108a	76a	20a	1a	70a	26a	36a	94a	21a
6.153846	86a	108a	76a	20a	69a	70a	26a	24a	36a	94a	104a	97a
6.153846			13a	108a	69a	1a	70a	36a	94a	104a	21a	97a
6.153846	00	70-	76a	20a	692	70a	262	36a	942	104a	21a	97a

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6.227106		 	108a		1a			24a	36a		104a	
6.227106			108a			69a	1a	70a	36a		104a	
6.227106			76a		69a	1a		36a				97a
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6.227106	86a	76a	69a	1a	70a	26a	24a	36a	94a	104a	21a	97a
6.227106	86a	79a	13a	108a	76a	20a	69a	1a	70a	36a	94a	104a
6.227106	86a	79a	13a	108a	76a	20a	69a	26a	24a	36a	94a	104a
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6.227106	86a	13a	108a	76a	20a	69a	1a	70a	26a	104a	21a	97a
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6.300366			108a	76a	20a	1a	70a	26a	24a	94a	104a	97a
6.300366			108a	<u> </u>	20a	69a	1a	70a	26a	24a	36a	104a
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6.300366	86a	79a	108a	76a	69a	1a	70a	26a	24a	104a	21a	97a
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6.373626			13a	108a				24a		94a	104a	
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6.446887	86a	79a	13a	108a	76a	69a	70a	26a		94a	104a	
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6.446887	86a	13a	108a	76a	20a	69a	1a	70a	36a	94a	104a	
6.446887			108a	76a	69a	1a	70a	26a	24a	94a	104a	21a
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Field1	218	2 -	3.4	4	5	6	7 2	8	9	%10 %	第11 章	#12#
6.446887		14.000	108a	1	20a		70a		36a		104a	
6.446887	;	<u> </u>		1a	70a			36a		104a	21a	97a
6.446887			108a		20a		 	24a	36a		104a	97a
6.446887			13a	108a	├ ──	 		70a	26a		104a	
6.446887			13a	76a	20a	}		26a	36a		21a	97a
6.446887			76a		 	1a		26a	24a		94a	104a
					1a	ļ	24a		<u></u>		21a	97a
6.446887	<u> </u>		108a	!	! -	ļ	ļ		ļ			97a
6.446887			108a	 	1a	70a	<u> </u>	24a	36a			
6.446887			13a	108a		69a			24a		94a	104a
6.446887			108a			}		24a			21a	97a
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6.446887			13a	108a			69a	1a			21a	97a
6.446887			108a			69a	1a		24a		104a	
6.446887			13a	108a			69a	1a	70a		36a	104a
6.446887			13a	108a		69a	1a		26a		104a	
6.446887			13a	108a			69a	1a	70a			21a
6.446887				108a					24a		94a	97a
6.520146	_					1a			24a		94a	104a
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6.520146					20a				24a		94a	97a
6.520146				108a		20a	1a		26a		104a	
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6.520146			108a			1a			24a			97a
6.520146			108a								21a	97a
6.520146			108a			69a	1a		26a			97a
6.520146						1a			36a 36a		104a 104a	97a 97a
6.520146			108a 108a			1a	70a 70a				21a	97a
6.520146			108a		69a 20a	1a 1a				104a	21a	97a
6.593407 6.593407			108a		69a	1a	70a		24a		21a	97a
6.593407			108a						36a		104a	
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6.593407										104a		97a
6.593407				108a			69a		26a		36a	104a
6.593407					69a		70a			94a	104a	}
6.593407			108a		69a		70a		36a		104a	
6.593407							26a					97a
6.593407			13a	20a 108a							21a	97a
<u> </u>	_		13a	108a				70a	24a		104a	
6.593407							1a 26a			94a	104a	
6.593407	_						20a 70a					97a
6.593407						1a						
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6.593407				76a		1a	70a			104a		97a
6.593407						1a	70a		24a		104a	
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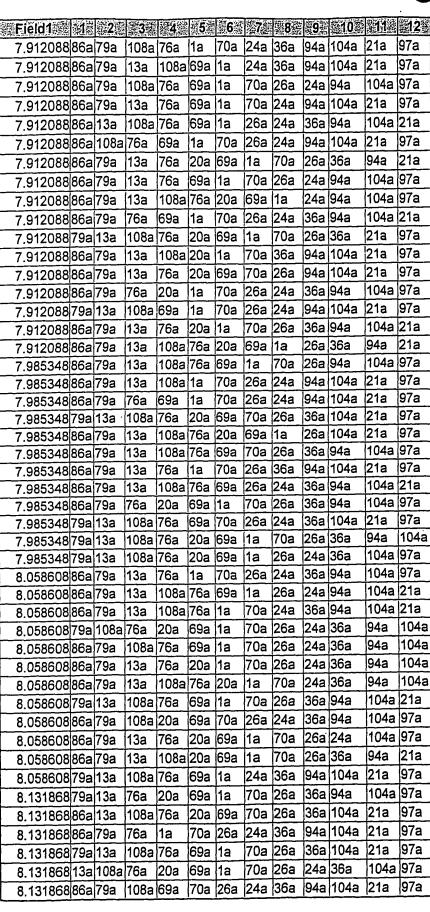


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Field1		2	第3章	ž 4*	5	6.	第7四	#8≇	9	10	数11金	12
6.886447	86a	13a	108a	76a	20a	69a	70a	26a	24a	36a	94a	104a
6.886447	79a	13a	108a	76a	1a	70a	26a	24a	94a	104a	21a	97a
6.886447	79a	13a	76a	69a	1a	70a	24a	36a	94a	104a	21a	97a
6.886447	86a	79a	13a	108a	76a	69a	1a	70a	24a	36a	104a	97a
6.959707			76a	69a	1a	70a	26a	36a	94a	104a	21a	97a
6.959707			108a	76a	20a	69a	26a	36a	94a	104a	21a	97a
6.959707			108a		69a	1a	70a	26a	24a	94a	104a	97a
6.959707		 	13a	20a	 	1a		26a	24a	94a	104a	97a
6.959707			108a			69a	1a	70a	26a	94a	104a	97a
6.959707			13a	108a	-	20a		70a	26a	36a	94a	104a
6.959707				69a	1a			24a	36a		104a	97a
6.959707			108a				1a		26a		36a	104a
7.032967			108a					24a	36a		104a	97a
7.032967			108a			69a		26a	24a	36a	104a	97a
7.032967			108a			1a		36a			21a	97a
7.032967			13a	108a		1a	70a		36a		104a	97a
7.032967			108a	76a		69a	1a	70a	24a	36a	94a	104a
7.032967			76a	69a	1a	70a	26a	24a	94a	104a	21a	97a
7.032967			108a	76a	20a	69a	1a	70a	94a	104a	21a	97a
7.032967			76a	20a	69a	1a	26a	36a	94a	104a	21a	97a
7.032967	86a	13a	108a	76a	20a	69a	1a	70a	36a	104a	21a	97a
7.032967	86a	76a	20a	69a	1a	70a	26a	36a	94a	104a	21a_	97a
7.032967	79a	13a				1a	70a	24a		104a	21a	97a
7.032967	79a	13a	108a			69a	1a	70a	26a		36a	94a
7.032967			13a	108a		1a			24a			21a
7.032967			76a			1a	ļ——	24a	36a		104a	
7.032967			76a	69a	1a						21a	97a
7.106227			108a		1a			24a		104a	21a 21a	97a 97a
7.106227			108a							104a 94a	104a	
7.106227			13a	108a 108a				26a 24a	36a		104a	
7.106227			13a		70a 69a		70a		36a			97a
7.106227						1a	70a		24a		104a	
7.106227				108a			26a			94a	104a	
7.106227			108a			69a	1a	-			21a	97a
7.106227 7.106227			13a	108a			26a			104a	21a	97a
7.106227			76a			1a	70a			36a	94a	104a
7.106227						1a	76a		 	94a	104a	
7.100227	_		13a	108a	 -	69a	1a	24a		94a	21a	97a
			108a		69a		24a		 	104a	21a	97a
7.179487 7.179487	_			20a		1a	70a			36a	104a	
			108a			1a	70a			94a	104a	
7.179487				20a 108a			69a			94a	104a	
7.179487			108a			1a	70a		-	104a	21a	97a
7.179487				70a 108a		1a	70a			104a	21a	97a
7.179487				108a			1a	26a		94a	104a	
7.179487			13a 13a	108a			69a			36a	104a	
7.179487	ova	134	100	Lioua	ı ua	200	1000	114	<u> - 70</u>	1004	11070	, u

Field1	12	2	3	45.	5	6 €	7.	8	79	第10章	\$11 8	12
7.179487	86a	79a	13a	20a	69a	1a	70a	26a	24a	36a	94a	97a
7.179487	86a	79a	13a	108a	20a	69a	70a	24a	36a	94a	104a	97a
7.179487	86a	79a	13a	108a	20a	69a	1a	70a	36a	94a	104a	21a
7.179487			13a	108a			1a	26a	94a	104a	21a	97a
7.252747	 		76a	20a	1a		26a	24a	36a		104a	97a
7.252747	 	;	13a	108a		<u> </u>	1a	70a	26a		36a	104a
7.252747	<u> </u>		13a	108a		69a	1a	70a	26a		21a	97a
7.252747			,			69a	1a	70a			21a	97a
7.252747			13a	108a				26a	24a	!	94a	104a
7.252747			13a	108a	 -	69a	1a	36a			21a	97a
7.252747			13a	108a		ļ	1a	70a	36a		104a	
7.252747					20a		1a	70a	26a		94a	104a
7.252747						1a		24a	36a		104a	
7.252747			}	20a	69a	1a		24a	36a		104a	
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7.252747			13a	108a				26a	24a		21a	97a
7.326007			108a				70a		<u> </u>		21a	97a
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7.326007			108a		1a	 		36a	94a	104a	21a	97a
7.326007			13a	108a		1a	70a	 	24a	36a	94a	104a
7.326007						69a	1a	24a	36a	94a	104a	97a
7.326007			13a	108a	76a	20a	69a	1a	36a	94a	104a	97a
7.326007			13a	108a	76a	20a	1a	26a	94a	104a	21a	97a
7.326007	86a	79a	13a	108a		69a	1a	26a	24a		94a	97a
7.326007	86a	79a	13a	108a	76a	69a	1a	26a	36a		21a	97a
7.326007	86a	79a	13a	108a		20a	69a	1a	70a		104a	
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7.399267			76a		 	1a		26a	24a		104a	
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7.399267			76a	69a	1a		26a		36a		21a	
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7.399267			76a	20a	├	1a	70a		24a		104a	
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7.472528	86a	79a	108a	76a	69a	1a	70a	24a	36a	94a	104a	19/a

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7.472528			13a	108a	3,24,,22		1a		1. A P. 1	C/1047400-0-1	PATE RALE	97a
7.472528			76a	!		1a			36a		104a	
J				ļ———			;		24a			21a
7.472528			13a	76a	69a	1a	70a	<u> </u>			104a	
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7.472528	86a	79a	13a	!	<u> </u>	69a	1a	!			21a	97a
7.472528	86a	79a	13a	108a	76a	20a	1a	24a	36a			97a
7.472528	86a	79a	108a	76a	69a	70a	26a			104a	21a	97a
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7.545787	86a	13a	76a	20a	69a	1a	70a	26a	24a	94a	104a	97a
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7.545787				69a	1a					104a	21a	97a
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7.619048			108a			1a					21a	97a
7.619048			13a	108a		20a	1å	26a	36a			21a
7.619048				20a	1a	70a	26a	36a		104a	21a	97a 97a
7.619048			108a		69a			26a		94a	21a	
7.619048					20a				24a			97a
7.619048			108a		20a		1a		26a		94a	21a
7.619048				69a	1a					104a	21a	97a 97a
7.619048			108a		20a			36a		104a	21a	
7.619048				108a			!			94a	104a	
7.619048				69a	1a	70a	26a			104a	21a	97a
7.619048			13a	20a		70a	26a			94a	104a	
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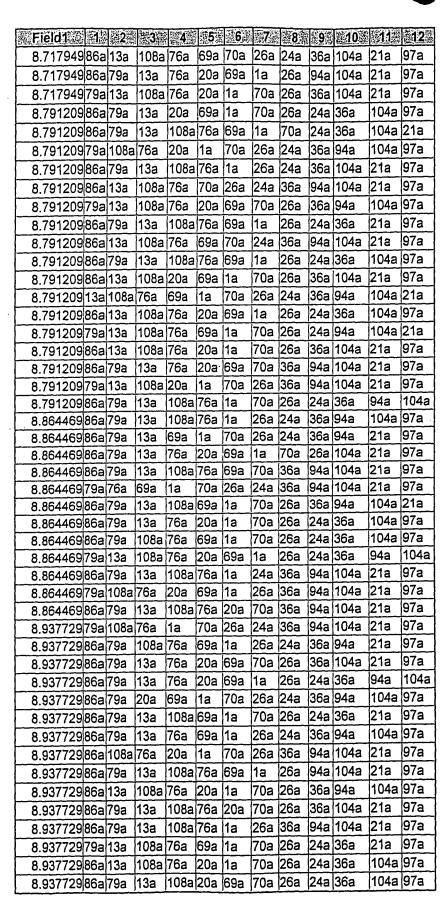
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Field1	1 10100 200.00	144.	Canada (19 cm)	4.	5	4000				10	到19	212章
7.692307		 	108a	 		1a	26a		 	104a	21a	97a
7.692307			13a	108a		20a	69a	1a		104a	21a	97a
7.692307	86a	13a	108a	76a	69a	70a	26a	24a	36a	94a	104a	
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7.838828 7.838828	_					69a				36a		97a
7.838828			13a	108a		69a	1a				21a	97a
7.838828	-				69a	1a		26a			94a	104a
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7.838828			13a	108a			1a	70a	36a	94a	104a	97a
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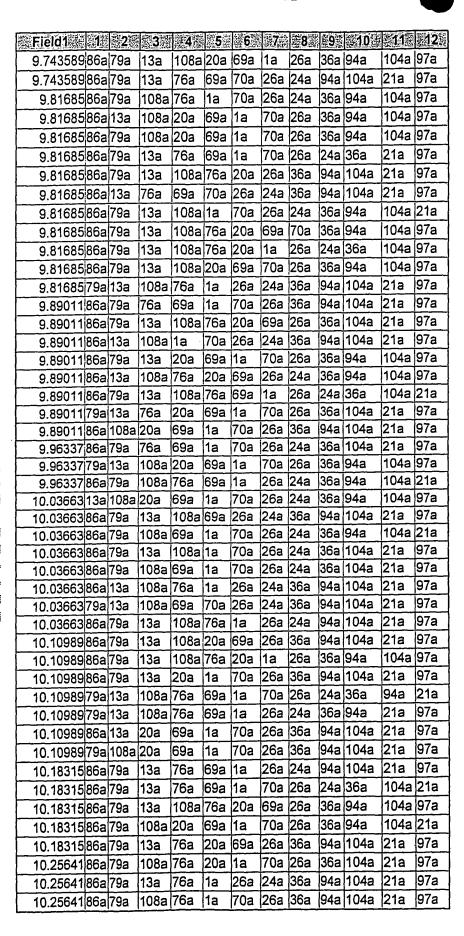
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8.131868	86a	79a	108a	69a	1a	70a	26a	24a	36a	94a	104a	97a
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8.205129			13a		20a		1a				21a	97a
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8.205129			13a	108a		69a	70a				21a	97a
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8.351648			108a		20a		26a				21a	97a
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8.351648			108a		69a						21a	97a
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8.351648			13a	108a			1a	70a			21a 104a	97a
8.351648						1a	70a			94a		
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8.351648			108a		1a	70a	26a		36a		104a	
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8.351648				108a			1a					97a
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8.424909	i			108a			69a		26a		104a	
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8.424909				108a			70a		24a		104a	
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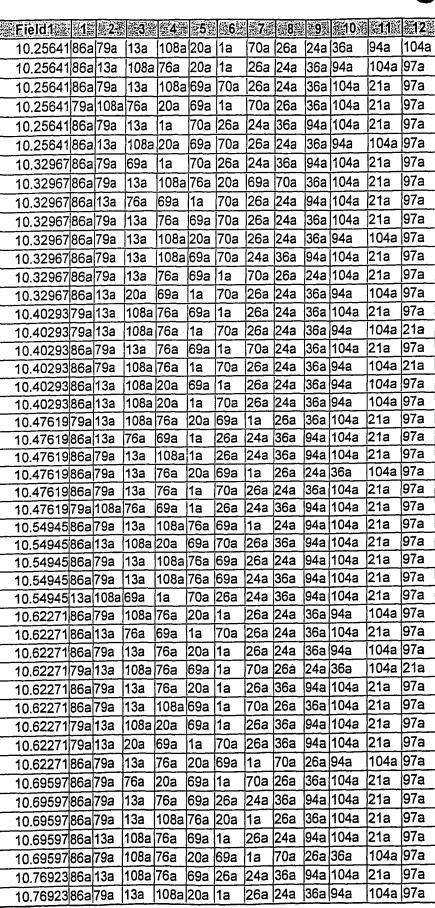
Appropriate the second	(5) Ca 80	TO A SA	esam.		聚合物	Wes.	12.72	1300	SEO AS		2440	MC No.
Field1		-								第10濟		
8.424909		 	13a	108a			70a					97a
8.424909	86a	79a	13a	108a		1a			36a			97a
8.424909	86a	79a	108a	76a	20a	69a	1a	26a		94a		97a
8.424909	86a	79a	13a	108a	20a	69a	1a	70a	26a	24a	36a	104a
8.424909	86a	79a	13a	108a	76a	69a	1a	70a	26a	36a	104a	21a
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8,498169	86a	13a	108a	20a	69a	1a	70a	26a	24a	36a	104a	97a
8.498169	86a	79a	108a	76a	69a	1a	26a	24a	36a	94a	104a	97a
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8.498169			108a	76a	69a	1a	26a	24a	94a	104a	21a	97a
8.498169			108a		20a	!			24a	36a	94a	97a
8.498169			108a			69a			36a			97a
8.498169	_			1a		26a					21a	97a
8.498169			108a				<u> </u>		36a			97a
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8.571428				108a				<u> </u>			21a	97a
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8.571428			13a	108a					94a	104a	21a	97a
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8.644689			108a		20a				24a		104a	
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Field1	215	2 2	建3 期	4	353	6	±7	28	¥Q'	3310個	2112	312
9.010989			13a	108a			1a	70a	26a			104a
9.010989			13a	108a		1a	}	24a			21a	97a
				 -								97a
9.010989						1a		26a	36a			
9.010989				76a		69a	1a	70a	26a		104a	
9.010989			20a	69a	1a	<u> </u>	<u> </u>	24a	36a		104a	
9.084249			13a	108a		69a	1a	26a	24a		94a	104a
9.084249				69a	1a	26a	24a	36a		104a	21a	97a
9.084249	79a	13a	108a	76a	20a	69a	1a	26a	36a			21a
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9.084249	86a	79a	13a_	108a	1a	70a	26a	36a	94a	104a	21a	97a
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9.304029			13a	108a	76a	20a	69a	1a	70a	36a	104a	97a
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Field1	劉麗	暴2型	3				[秦7歳	8 8	9.	图10部		
9.304029	86a	79a	13a	108a	76a	20a	69a	36a	94a	104a	21a	97a
9.304029	86a	13a	108a	76a	69a	1a	26a	24a	36a	104a	21a	97a
9.304029	79a	13a	108a	76a	20a	69a	1a	70a	26a	36a	104a	21a
9.304029	86a	79a	13a	108a	76a	1a	70a	26a	36a	104a	21a	97a
9.304029	86a	79a	108a	76a	1a	70a	26a	24a	94a	104a	21a	97a
9.304029	86a	79a	108a	76a	20a	1a	70a	26a	24a	36a	104a	97a
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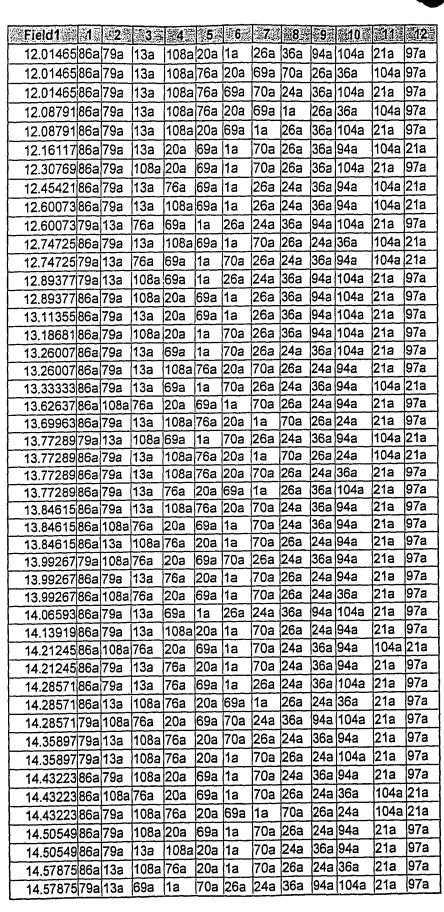








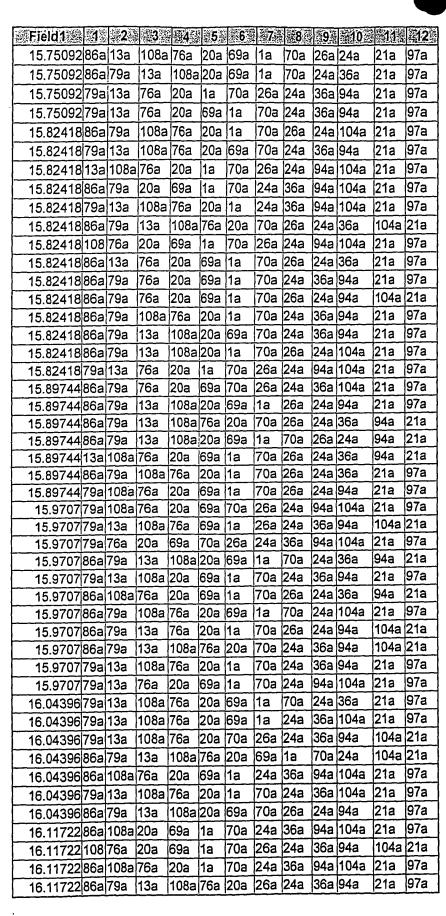
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11.86813 798		108a		69a		70a				21a	97a
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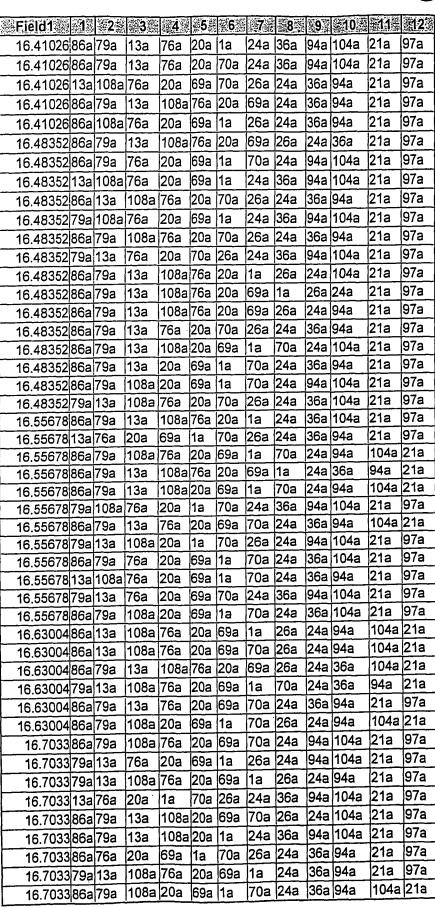
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14.65201	86a	13a	108a	76a	20a	1a	70a	24a	36a	94a	21a	97a
14.72528	86a	79a	13a	108a	76a	20a	1a	26a	24a	36a	21a	97a
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15.09157				108a					24a			97a
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15.2381	86a	79a		108a		!	69a		26a		104a	
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15.38461	86a	13a	108a	76a	20a	1a	//ua	26a	24a	194a	104a	2 ld

Eield1	213°	差 りま	#12 SE	4	当5整	超6章	運 7連	ΩΨ	0.0	¥10#	611	12
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15.38461			13a 13a	76a 108a			1a		26a		36a	21a
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15.6044			100a 13a	108a			69a		26a		104a	
15.67766 15.67766					69a		70a		24a		21a	97a
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15.75092				20a	1a	70a	24a		+	104a	21a	97a
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15.75092			108a			69a		26a		94a	21a	97a
15.75092	looa	113a	108a	Zua	69a	ııa.	ı, va	200	12.7d	10-74	12 14	10,0





Field1	212	200		1224	-5 H	i e	37 2	20	₹0 €	410	维4.4 簸	\$12 F
			13a	108a						*********	104a	
16.11722			 -	 -			1a		24a			
16.19048	}	;	108a		20a		1a	}	 			97a
16.19048		<u></u>	108a	!		1a	70a	26a	24a			97a
16.19048	86a			20a	 	├ ──		24a	36a		21a	97a
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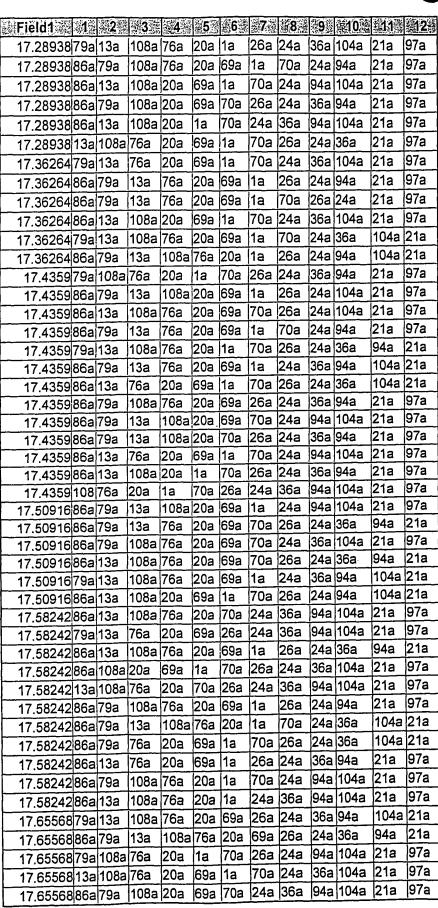






Columbia de Cara de Ca	ALGERIA (SE	d paragon place	1 (6) 1120 11	American	later 2 or n		Property card	1 #	Language Contract	Instrumental	(8.5° - (2.8)
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16.7033 798	13a	108a	76a	20a	69a	70a	26a	24a	36a	104a	21a
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16.7765613a		 -	20a		1a		24a	36a		104a	21a
16.77656 86		108a					36a			21a	97a
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16.7765679	} -	108a			69a		26a	24a		21a	97a
16.77656798		108a		, 	69a						97a
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16.8498279			76a		1a	70a	24a	36a	94a	104a	21a
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18.46154			76a	20a	1a		26a					97a
18.46154				69a	!	26a			-		21a	97a
18.46154			13a	76a	20a	1a			-		21a	97a
18.46154				20a	69a	1a		26a	24a			21a
18.5348	_		13a	108a		69a					21a	97a
18.5348			13a 20a	69a	1a	70a	 -	24a	36a		104a	
						70a		24a	36a		21a	97a
18.5348			76a	20a	1a	 		}				97a
18.5348			76a	20a				36a 26a	94a 24a			21a
18.5348			108a		20a	1a	<u> </u>	<u> </u>			94a	21a 21a
18.5348			13a	108a		1a			24a			21a 97a
18.5348						70a	<u> </u>					
18.60806				20a	69a	1a			_	104a	ļ	97a
18.60806			108a							104a		97a
18.60806			13a	108a			26a					97a
18.60806			20a	69a	1a	70a						97a
18.60806			108a			70a			36a		21a	97a
18.60806				20a	1a	70a				104a	<u> </u>	97a
18.60806			13a	108a		1a				104a		97a
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18.68132			13a		69a	1a					21a 104a	97a_
18.68132				69a	1a	70a	26a		36a		104a 21a	97a
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18.68132										104a	21a 21a	97a
18.68132			13a	76a		69a 20a				104a	21a	97a
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18.68132			13a 13a	108a		69a		26a	24a		94a	21a
18.68132				100a 69a	1a	70a		24a		104a	21a	97a
18.68132			20a 13a	108a		70a 69a	1a	70a	26a		36a	21a
18.68132 18.75458					20a 1a		26a		36a		104a	
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18.75458						1a	70a			36a	94a	21a
18.75458			13a	76a		1a	70a		<u> </u>	36a	94a	21a
18.75458			108a	<u> </u>	1a	70a	26a			104a	21a	97a
18.75458			108a		69a	1a	24a			104a	21a	97a
			76a	20a 20a		70a	26a			104a	21a	97a
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18.75458			13a	108a			1a	24a		104a	21a	97a
18.82784			13a		┼──	70a	+	24a		104a	21a	97a
18.82784			13a	20a	1a		24a	-	4	104a	21a	97a
18.9011			13a	108a		70a	+	36a	+	104a	21a	97a
18.9011			108a			70a				104a	21a	97a
18.9011			108a			70a	26a				21a	97a
18.9011				69a	1a	70a	26a			104a	104a	
18.9011	86a	13a	108a	/6a	20a	па	26a	24a	Jooa	94a	1048	1210

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18.9011	79a	13a	76a	20a	69a	1a	26a	24a	36a	94a	21a	97a
18.97436	86a	79a	13a	76a	20a	69a	26a	24a	36a	94a_	21a	97a
18.97436	86a	79a	13a	108a	20a	69a	26a	24a	36a	104a	21a	97a
18.97436	86a	79a	13a	108a	20a	1a	26a	24a	36a	104a	21a	97a
18.97436	86a	79a	76a	20a	69a	1a	70a	26a	24a	36a	21a	97a
18.97436	86a	79a	13a	76a	20a	69a	1a	70a	24a	104a	21a	97a
18.97436	79a	13a	76a	20a	69a	1a	70a	26a	24a	36a	94a	21a
18.97436	86a	79a	13a	20a	69a	1a	70a	26a	24a	94a	104a	21a
18.97436	86a	79a	13a	76a	20a	69a	1a	24a	94a	104a	21a	97a
19.04762	86a	79a	13a	20a	69a	70a	26a	24a	36a	94a	21a	97a
19.04762	86a	79a	13a	76a	20a	1a	26a	24a	36a	104a	21a	97a
19.04762	86a	79a	108a	76a	20a	1a	70a	24a	36a	94a	104a	21a
19.04762	86a	13a	108a	20a	1a	70a	26a	24a	94a	104a	21a	97a
19.04762	86a	79a	108a	76a	20a	1a	26a	24a	36a			97a
19.04762			76a	20a	69a	1a	26a	24a	94a	104a	21a	97a
19.04762	86a	79a	13a	108a	76a	20a	69a	1a	24a	94a	21a	97a
19.04762	79a	13a	20a	1a	70a	26a	24a	36a	94a	104a	21a	97a
19.12088	86a	79a	108a	20a	1a_	70a	26a	24a	36a	94a	21a	97a_
19.12088	13a	108a	76a	20a	69a	70a	26a	24a	36a	104a	21a	97a
19.12088	86a	13a	76a	20a	69a	1a	70a	26a	24a	104a		97a
19.12088			108a	20a	69a	1a			36a		21a	97a
19.12088	13a	108a	20a	69a	1a							97a
19.12088	79a		108a									97a
19.12088			108a			69a			26a			21a
19.12088				69a	1a		-		36a			97a
19.12088					1a_				36a			21a
19.19414					69a	1a	26a					97a
19.19414			108a		1a		26a		94a 36a		21a 104a	97a
19.19414					1a							97a
19.19414			108a			1a			94a 24a		104a	
19.2674				108a			69a			104a		97a
19.2674					69a 20a		26a 26a			94a	104a	
19.2674			108a		20a 69a		20a 24a				21a	97a
19.2674			76a 13a	20a 108a			69a				21a	97a
19.34066 19.34066	_				69a		70a				21a	97a
19.34066			108a		70a		24a		_		21a	97a
19.41392				69a			26a			94a	104a	
19.41392			108a		69a		26a				21a	97a
19.41392			108a		20a		26a				21a	97a
19.41392				20a	1a		26a			94a	21a	97a
19.48718			108a		69a		26a			94a	104a	21a
19.48718			20a	69a	70a		24a				21a	97a
19.48718				1a			24a			104a	21a	97a
19.48718			108a		69a		70a			36a	94a	21a
19.48718			13a	108a			70a				21a	97a
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19.48718	86a	13a	108a	20a	1a	70a	26a	24a	36a	94a	104a	21a
19.56044	86a	13a	108a	20a	69a	70a	26a	24a	94a	104a	21a	97a
19.56044	86a	13a	20a	69a	1a	70a	26a	24a	36a	104a	21a	97a
19.56044	86a	79a	13a	76a	20a	69a	24a	36a	94a	104a	21a	97a
19.6337	86a	79a	13a	76a	20a	69a	70a	26a	24a		21a	97a
19.6337			108a			70a	26a	24a	36a	104a	21a	97a
19.6337			108a		69a	1a			24a		104a	
19.6337	-	!	108a		!	69a	!	24a		104a	21a	97a
19.6337			76a	20a	69a	1a			24a		94a	21a
19.6337			13a	76a		69a	1a	26a	24a		21a	97a
19.6337		. 	20a	69a	70a			36a			21a	97a
19.70696			76a	20a		1a		24a			21a	97a
19.70696			13a	76a		69a	26a					97a
19.78022				20a	69a			36a			21a	97a
19.78022		<u> </u>	108a	! -	20a	1a		24a	36a			97a
19.78022			20a	69a	1a		26a					97a
19.78022			13a	108a	,	69a		24a	36a			21a
19.78022			76a		69a	1a			24a		21a	97a
19.85348			108a		69a	1a						97a
19.85348			108a		20a			26a	24a		104a	21a
19.85348			13a	108a		20a		24a	36a	104a	21a	97a
19.85348	86a	79a	13a	20a	69a	1a	26a	24a	94a	104a	21a	97a
19.85348	86a	13a	108a	76a	20a	69a	24a	36a	94a	104a	21a	97a
19.92674	79a	108a	20a	69a	1a	70a	26a	24a	36a		104a	
19.92674	79a	13a	108a			1a	70a		24a			97a
19.92674			108a		69a	1a			24a			21a
-	86a		13a			69a					21a	97a
	86a		108a		20a				36a		104a	
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	86a		76a		69a		70a				21a	97a
	86a 86a		70a 20a				24a				21a	97a
20.07326			13a	108a					24a		104a	
20.07326			13a		20a		1a			104a	21a	97a
20.07326			76a	20a	1a	70a	26a		36a		104a	
20.07326			13a	108a			1a		24a		104a	
20.07320			76a		69a	1a		26a	24a		104a	
20.14652			13a		20a		26a				21a	97a
20.14652	_		108a		20a		24a				21a	97a
20.14652			20a	1a	70a	26a	24a		_	104a	21a	97a
20.14652		_	108a			1a	26a			104a	21a	97a
20.14032			13a	76a		69a	70a		_		21a	97a
20.21978			20a	69a	1a	70a	26a				21a	97a
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20.29304	86a	79a	108a	20a	69a	1a	26a	24a	36a	94a	21a	97a
20.29304	86a	13a	76a	20a	70a	26a	24a	36a_	94a	104a	21a	97a
20.3663	13a	108a	20a	69a	1a	26a	24a	36a	94a	104a	21a	97a
20.3663	86a	79a	108a	76a	20a	1a	70a	26a	24a	36a	94a	21a
20.3663	79a	13a	108a	76a	20a	69a	1a	26a	24a	36a	94a	21a
20.43956		_	76a	20a	70a	26a	24a	36a	94a	104a	21a	97a
20.43956			13a	76a	20a	69a	1a	26a	24a	36a	104a	21a
20.51282			20a	69a	1a	70a	26a	24a	36a	94a	21a	97a
20.51282	86a	79a	108a	76a	20a	1a	26a	24a	94a	104a	21a	97a
20.58608			76a	20a	1a	70a	26a	24a	36a	94a	104a	21a
20.58608				69a	1a	26a	24a	36a	94a	104a	21a	97a
20.58608			108a	20a	69a	70a	26a	24a	36a	94a	104a	21a
20.58608	86a	13a	76a	20a	69a	70a	26a	24a	36a	94a	104a	21a
20.65934	79a	108a	20a	69a	1a	70a	26a	24a	36a	104a	21a	97a
20.65934	79a	20a	69a	1a	70a	26a	24a	36a	94a	104a	21a	97a
20.65934	79a	108a	76a	20a	69a	1a	26a	24a	36a	94a	104a	
20.7326	86a	79a	13a	108a	20a	69a	1a	26a	24a		104a	
20.7326	86a	79a	108a		1a	70a	 	24a	!		21a	97a
20.7326	86a					1a		24a			21a	97a
20.7326	86a	79a	108a		20a		1a	24a			21a	97a
20.7326			108a		69a	1a		26a	24a		104a	
20.95238			108a			1a	 	24a	36a	104a	21a 104a	97a
21.02564			108a		20a			24a 36a			21a	97a
21.02564			108a 69a	∠∪a 1a	69a 70a			36a				97a
21.0989 21.24542					-	-		36a		104a		97a
21.24542			108a		20a	! 	1a	26a	24a		94a	21a
21.31868						1a		24a	36a	94a	104a	21a
21.31868			13a	108a		1a	26a	24a	36a	94a	104a	21a
21.39194			76a	20a	1a	70a	26a	24a	L	94a	104a	
21.4652	13a	108a	20a	69a	70a	26a	24a	36a	94a	104a		97a
21.4652	86a	79a	20a	69a	1a	70a	26a	24a	36a		21a	97a
21.4652	86a	79a	13a	76a			26a			94a	104a	-
21.53846	86a	108a	20a	69a			24a	ļ		104a		97a
21.61172	-		13a	108a			24a			104a	21a	97a
21.61172	-		76a		69a		26a	-		94a	21a	97a
21.61172			13a	20a	69a			26a		36a	104a	
21.61172	}		13a	108a		+	26a			94a	104a	
21.68498			20a	1a		26a				104a	21a	97a
21.68498			108a			70a	26a		 	94a	104a	
21.68498	+		20a	69a	1a	70a	26a			104a	21a	97a 97a
21.75824			76a	20a	1a	26a	24a		+	104a	21a	
21.75824	-		76a	20a	69a	 -		24a	 	94a	104a	97a
21.75824			20a	69a		26a	24a		+	104a	21a 104a	-
21.75824			13a	108a	-	+		24a	+	94a	21a	97a
21.8315	+		108a		69a	+		24a	+	104a	104a	
21.90476	86a	13a	108a	20a	69a	1a	26a	24a	Joa	94a	11048	1410